Christoph Braun

List of Publications by Year in descending order

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141 papers

11,221 citations

45 h-index 30922 102 g-index

147 all docs

147 docs citations

times ranked

147

10632 citing authors

#	Article	IF	CITATIONS
1	Combined electrophysiological and morphological phenotypes in patients with genetic generalized epilepsy and their healthy siblings. Epilepsia, 2022, 63, 1643-1657.	5.1	8
2	Stimulation artifact source separation (SASS) for assessing electric brain oscillations during transcranial alternating current stimulation (tACS). NeuroImage, 2021, 228, 117571.	4.2	19
3	Heritability of Magnetoencephalography Phenotypes Among Patients With Genetic Generalized Epilepsy and Their Siblings. Neurology, 2021, 97, e166-e177.	1.1	11
4	A set of electroencephalographic (EEG) data recorded during amplitude-modulated transcranial alternating current stimulation (AM-tACS) targeting 10-Hz steady-state visually evoked potentials (SSVEP). Data in Brief, 2021, 36, 107011.	1.0	0
5	Optically pumped magnetometers reveal fasciculations non-invasively. Clinical Neurophysiology, 2021, 132, 2681-2684.	1.5	15
6	Oscillatory Potentials in Achromatopsia as a Tool for Understanding Cone Retinal Functions. International Journal of Molecular Sciences, 2021, 22, 12717.	4.1	4
7	A Tactile Virtual Reality for the Study of Active Somatosensation. Frontiers in Integrative Neuroscience, 2020, 14, 5.	2.1	3
8	Involvement of top-down networks in the perception of facial emotions: A magnetoencephalographic investigation. Neurolmage, 2020, 222, 117075.	4.2	17
9	Reliability of Magnetoencephalography and High-Density Electroencephalography Resting-State Functional Connectivity Metrics. Brain Connectivity, 2019, 9, 539-553.	1.7	36
10	Spontaneous preâ€stimulus oscillatory activity shapes the way we look: A concurrent imaging and eyeâ€movement study. European Journal of Neuroscience, 2019, 49, 137-149.	2.6	4
11	Increased Functional MEG Connectivity as a Hallmark of MRI-Negative Focal and Generalized Epilepsy. Brain Topography, 2018, 31, 863-874.	1.8	37
12	Phosphene perception and pupillary responses to sinusoidal electrostimulation - For an objective measurement of retinal function. Experimental Eye Research, 2018, 176, 210-218.	2.6	7
13	Concurrent use of somatotopic and external reference frames in a tactile mislocalization task. Brain and Cognition, 2017, 111, 25-33.	1.8	14
14	How the brain reacts to social stress (exclusion) – A scoping review. Neuroscience and Biobehavioral Reviews, 2017, 80, 80-88.	6.1	105
15	Plasticity of premotor cortico-muscular coherence in severely impaired stroke patients with hand paralysis. Neurolmage: Clinical, 2017, 14, 726-733.	2.7	68
16	A somatosensoryâ€ŧoâ€motor cascade of cortical areas engaged in perceptual decision making during tactile pattern discrimination. Human Brain Mapping, 2017, 38, 1172-1181.	3.6	10
17	Learned control of inter-hemispheric connectivity: Effects on bimanual motor performance. Human Brain Mapping, 2017, 38, 4353-4369.	3.6	20
18	tACS Phase Locking of Frontal Midline Theta Oscillations Disrupts Working Memory Performance. Frontiers in Cellular Neuroscience, 2016, 10, 120.	3.7	61

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19	Detecting a Cortical Fingerprint of Parkinson's Disease for Closed-Loop Neuromodulation. Frontiers in Neuroscience, 2016, 10, 110.	2.8	11
20	The Tactile Window to Consciousness is Characterized by Frequency-Specific Integration and Segregation of the Primary Somatosensory Cortex. Scientific Reports, 2016, 6, 20805.	3. 3	19
21	Inferior frontal gyrus links visual and motor cortices during a visuomotor precision grip force task. Brain Research, 2016, 1650, 252-266.	2.2	28
22	Bilateral representations of touch in the primary somatosensory cortex. Cognitive Neuropsychology, 2016, 33, 48-66.	1.1	68
23	Cortical correlates of susceptibility to upper limb freezing in Parkinson's disease. Clinical Neurophysiology, 2016, 127, 2386-2393.	1.5	22
24	Mapping entrained brain oscillations during transcranial alternating current stimulation (tACS). Neurolmage, 2016, 140, 89-98.	4.2	144
25	Neuromuscular correlates of subthalamic stimulation and upper limb freezing in Parkinson's disease. Clinical Neurophysiology, 2016, 127, 610-620.	1.5	21
26	Somatotopy and temporal dynamics of sensorimotor interactions: evidence from double afferent inhibition. European Journal of Neuroscience, 2015, 41, 1459-1465.	2.6	26
27	Early integration of bilateral touch in the primary somatosensory cortex. Human Brain Mapping, 2015, 36, 1506-1523.	3 . 6	45
28	Cortical correlates of perceptual decision making during tactile spatial pattern discrimination. Human Brain Mapping, 2015, 36, 3339-3350.	3.6	14
29	Prestimulus oscillatory alpha power and connectivity patterns predispose perceptual integration of an audio and a tactile stimulus. Human Brain Mapping, 2015, 36, 3486-3498.	3 . 6	26
30	A Non-Magnetic Rotating Disk Stimulator for the Study of Neuromagnetic Correlates of Sensorimotor Interaction. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 1078-1084.	4.9	0
31	Timing matters! The neural signature of intuitive judgments differs according to the way information is presented. Consciousness and Cognition, 2015, 38, 71-87.	1.5	5
32	Multimodal effective connectivity analysis reveals seizure focus and propagation in musicogenic epilepsy. Neurolmage, 2015, 113, 70-77.	4.2	41
33	Differences Between MEG and High-Density EEG Source Localizations Using a Distributed Source Model in Comparison to fMRI. Brain Topography, 2015, 28, 87-94.	1.8	55
34	Trading off stimulus salience for identity: A cueing approach to disentangle visual selection strategies. Vision Research, 2015, 113, 116-124.	1.4	12
35	Magnetoencephalography Reveals a Widespread Increase in Network Connectivity in Idiopathic/Genetic Generalized Epilepsy. PLoS ONE, 2015, 10, e0138119.	2.5	48
36	Temporal Windows in Visual Processing: "Prestimulus Brain State―and "Poststimulus Phase Reset― Segregate Visual Transients on Different Temporal Scales. Journal of Neuroscience, 2014, 34, 1554-1565.	3.6	58

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37	Concurrent stable and unstable cortical correlates of human wrist movements. Human Brain Mapping, 2014, 35, 3867-3879.	3.6	3
38	Neural Correlates of Finger Gnosis. Journal of Neuroscience, 2014, 34, 9012-9023.	3.6	25
39	Distinguishable neural correlates of verbs and nouns: A MEG study on homonyms. Neuropsychologia, 2014, 54, 87-97.	1.6	18
40	Prestimulus oscillatory power and connectivity patterns predispose conscious somatosensory perception. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E417-25.	7.1	161
41	Neural mechanisms of savant calendar calculating in autism: An MEG-study of few single cases. Brain and Cognition, 2014, 90, 157-164.	1.8	7
42	Feeling before knowing why: The role of the orbitofrontal cortex in intuitive judgments—an MEG study. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 1271-1285.	2.0	29
43	Lateralized alpha-band cortical networks regulate volitional modulation of beta-band sensorimotor oscillations. NeuroImage, 2014, 87, 147-153.	4.2	55
44	Waves of regret: A meg study of emotion and decision-making. Neuropsychologia, 2013, 51, 38-51.	1.6	31
45	Instrument specific brain activation in sensorimotor and auditory representation in musicians. Neurolmage, 2013, 74, 37-44.	4.2	30
46	A portable auditory P300 brain–computer interface with directional cues. Clinical Neurophysiology, 2013, 124, 327-338.	1.5	80
47	Two types of exerciseâ€induced neuroplasticity in congenital hemiparesis: a transcranial magnetic stimulation, functional <scp>MRI</scp> , and magnetoencephalography study. Developmental Medicine and Child Neurology, 2013, 55, 941-951.	2.1	92
48	Recognition Memory for High and Low Associative Stimuli in Autistic Individuals with Outstanding Memory Skill. Scandinavian Journal of Child and Adolescent Psychiatry and Psychology, 2013, 1, 43-50.	0.6	1
49	Weighted Phase Lag Index and Graph Analysis: Preliminary Investigation of Functional Connectivity during Resting State in Children. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-8.	1.3	36
50	The Contribution of Primary and Secondary Somatosensory Cortices to the Representation of Body Parts and Body Sides: An fMRI Adaptation Study. Journal of Cognitive Neuroscience, 2012, 24, 2306-2320.	2.3	62
51	Source Activity Correlation Effects on LCMV Beamformers in a Realistic Measurement Environment. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-8.	1.3	14
52	Enhancing the Signal of Corticomuscular Coherence. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-10.	1.3	2
53	Hydraulic Driven Fast and Precise Nonmagnetic Tactile Stimulator for Neurophysiological and MEG Measurements. IEEE Transactions on Biomedical Engineering, 2012, 59, 2852-2858.	4.2	5
54	Can magnetoencephalography track the afferent information flow along white matter thalamo-cortical fibers?. Neurolmage, 2012, 60, 1092-1105.	4.2	39

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55	Review of the BCI Competition IV. Frontiers in Neuroscience, 2012, 6, 55.	2.8	686
56	Volitional Control of Neuromagnetic Coherence. Frontiers in Neuroscience, 2012, 6, 189.	2.8	27
57	Multivariate EEG spectral analysis evidences the functional link between motor and visual cortex during integrative sensorimotor tasks. Biomedical Signal Processing and Control, 2012, 7, 221-227.	5.7	15
58	Quantifying the Link between Anatomical Connectivity, Gray Matter Volume and Regional Cerebral Blood Flow: An Integrative MRI Study. PLoS ONE, 2011, 6, e14801.	2.5	42
59	Effects of Aversive Stimuli on Prospective Memory. An Event-Related fMRI Study. PLoS ONE, 2011, 6, e26290.	2.5	16
60	Mislocalization of nearâ€threshold tactile stimuli in humans: a central or peripheral phenomenon?. European Journal of Neuroscience, 2011, 33, 499-508.	2.6	6
61	Cortical processing of near-threshold tactile stimuli in a paired-stimulus paradigm - an MEG study. European Journal of Neuroscience, 2011, 34, 641-651.	2.6	23
62	Chronic stroke recovery after combined BCI training and physiotherapy: A case report. Psychophysiology, 2011, 48, 578-582.	2.4	152
63	Electromagnetic evidence of altered visual processing in autism. Neuropsychologia, 2011, 49, 3011-3017.	1.6	15
64	REG-ICA: A hybrid methodology combining Blind Source Separation and regression techniques for the rejection of ocular artifacts. Biomedical Signal Processing and Control, 2011, 6, 291-300.	5.7	140
65	Comparing Tactile Pattern and Vibrotactile Frequency Discrimination: A Human fMRI Study. Journal of Neurophysiology, 2010, 103, 3115-3122.	1.8	59
66	The Neural Correlates of Morphosyntactic Processes: A MEG Study of Noun and Verb Homophones. Procedia, Social and Behavioral Sciences, 2010, 6, 94-95.	0.5	0
67	Combination of Brain-Computer Interface Training and Goal-Directed Physical Therapy in Chronic Stroke: A Case Report. Neurorehabilitation and Neural Repair, 2010, 24, 674-679.	2.9	189
68	The temporal sequence of magnetic brain activity for food categorization and memorization $\hat{a} \in "$ an exploratory study. Neurolmage, 2010, 52, 1584-1591.	4.2	22
69	Detecting nonlinear causal interactions between dynamical systems by non-uniform embedding of multiple time series., 2010, 2010, 102-5.		5
70	The Truth about Lying: Inhibition of the Anterior Prefrontal Cortex Improves Deceptive Behavior. Cerebral Cortex, 2010, 20, 205-213.	2.9	181
71	Feeling for space or for time: Task-dependent modulation of the cortical representation of identical vibrotactile stimuli. Neuroscience Letters, 2010, 480, 143-147.	2.1	13
72	The mind of the mnemonists: An MEG and neuropsychological study of autistic memory savants. Behavioural Brain Research, 2010, 215, 114-121.	2.2	16

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73	Cortical processing of near-threshold tactile stimuli: An MEG study. Psychophysiology, 2010, 47, 523-534.	2.4	28
74	Cortical Reorganization after Damage to the Central Nervous System. Neuro-Ophthalmology, 2009, 33, 142-148.	1.0	2
75	Misleading functional magnetic resonance imaging mapping of the cortical hand representation in a 4-year-old boy with an arteriovenous malformation of the central region. Journal of Neurosurgery: Pediatrics, 2009, 4, 333-338.	1.3	24
76	Neuromagnetic Response to Body Motion and Brain Connectivity. Journal of Cognitive Neuroscience, 2009, 21, 837-846.	2.3	23
77	A review on directional information in neural signals for brain-machine interfaces. Journal of Physiology (Paris), 2009, 103, 244-254.	2.1	162
78	Somatosensory system in two types of motor reorganization in congenital hemiparesis: Topography and function. Human Brain Mapping, 2009, 30, 776-788.	3.6	80
79	Know Thyself: Behavioral Evidence for a Structural Representation of the Human Body. PLoS ONE, 2009, 4, e5418.	2.5	14
80	Hand Movement Direction Decoded from MEG and EEG. Journal of Neuroscience, 2008, 28, 1000-1008.	3.6	376
81	Predicting the recognition of natural scenes from single trial MEG recordings of brain activity. Neurolmage, 2008, 42, 1056-1068.	4.2	44
82	Think to Move: a Neuromagnetic Brain-Computer Interface (BCI) System for Chronic Stroke. Stroke, 2008, 39, 910-917.	2.0	537
83	Decoding Performance for Hand Movements: EEG vs. MEG. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5346-8.	0.5	5
84	BOLD Adaptation in Vibrotactile Stimulation: Neuronal Networks Involved in Frequency Discrimination. Journal of Neurophysiology, 2007, 97, 264-271.	1.8	49
85	An MEG-based brain–computer interface (BCI). NeuroImage, 2007, 36, 581-593.	4.2	360
86	Cerebro-muscular and cerebro-cerebral coherence in patients with pre- and perinatally acquired unilateral brain lesions. Neurolmage, 2007, 37, 1301-1314.	4.2	29
87	The involvement of ipsilateral temporoparietal cortex in tactile pattern working memory as reflected in beta event-related desynchronization. Neurolmage, 2007, 37, 1362-1370.	4.2	19
88	Crossed cortico-spinal motor control after capsular stroke. European Journal of Neuroscience, 2007, 25, 2935-2945.	2.6	45
89	Cortical activation during word reading and picture naming in dyslexic and non-reading-impaired children. Clinical Neurophysiology, 2006, 117, 1085-1097.	1.5	25
90	Modulation of Visual Stimulus Discrimination by Sustained Focal Attention: An MEG Study., 2006, 47, 1225.		9

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91	Effects of motor activity on the organization of primary somatosensory cortex. NeuroReport, 2006, 17, 39-43.	1.2	4
92	Do cortical maps depend on the timing of sensory input? Experimental evidence and computational model. Biological Cybernetics, 2006, 94, 110-117.	1.3	1
93	Coordinate processing during the left-to-right hand transfer investigated by EEG. Experimental Brain Research, 2006, 168, 547-556.	1.5	23
94	Coherent corticomuscular oscillations originate from primary motor cortex: Evidence from patients with early brain lesions. Human Brain Mapping, 2006, 27, 789-798.	3.6	77
95	Periventricular leukomalacia specifically affects cortical MEG response to biological motion. Annals of Neurology, 2006, 59, 415-419.	5.3	30
96	Reply: Periventricular leukomalacia disrupts brain connectivity. Annals of Neurology, 2006, 60, 269-270.	5.3	0
97	Abnormal Reactivity of the Primary Somatosensory Cortex During the Experience of Pain in Complex Regional Pain Syndrome: A Magnetoencephalograhic Case Study. Neurocase, 2006, 12, 280-285.	0.6	4
98	Objective Measurement of Tactile Mislocalization. IEEE Transactions on Biomedical Engineering, 2005, 52, 728-735.	4.2	15
99	The right hand knows what the left hand is feeling. Experimental Brain Research, 2005, 162, 366-373.	1.5	44
100	The dynamics of visual pattern masking in natural scene processing: A magnetoencephalography study. Journal of Vision, 2005, 5, 10.	0.3	33
101	Brain processes associated with target finding. Cognitive Brain Research, 2005, 25, 926-935.	3.0	2
102	EEG correlates of coordinate processing during intermanual transfer. Experimental Brain Research, 2004, 159, 161-171.	1.5	34
103	Influence of social support and emotional context on pain processing and magnetic brain responses in fibromyalgia. Arthritis and Rheumatism, 2004, 50, 4035-4044.	6.7	135
104	Neuromagnetic activity in medial parietooccipital cortex reflects the perception of visual motion during eye movements. NeuroImage, 2004, 21, 593-600.	4.2	28
105	A Placebo-Controlled Randomized Crossover Trial of the N-Methyl-d-Aspartic Acid Receptor Antagonist, Memantine, in Patients with Chronic Phantom Limb Pain. Anesthesia and Analgesia, 2004, 98, 408-413.	2.2	104
106	Effects of co-activation on cortical organization and discrimination performance. NeuroReport, 2004, 15, 2669-2672.	1.2	40
107	Effects of hydration and hyperventilation on cortical complexity. Experimental Brain Research, 2003, 150, 341-355.	1.5	6
108	Reconstruction of extended cortical sources for EEG and MEG based on a Monte-Carlo-Markov-chain estimator. Human Brain Mapping, 2003, 18, 100-110.	3.6	22

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109	Task-specific plasticity of somatosensory cortex in patients with writer's cramp. NeuroImage, 2003, 20, 1329-1338.	4.2	39
110	Feature-specific electrophysiological correlates of texture segregation. Vision Research, 2003, 43, 7-19.	1.4	37
111	The musician's brain: functional imaging of amateurs and professionals during performance and imagery. Neurolmage, 2003, 20, 1817-1829.	4.2	318
112	Gender differences in response to pictures of nudes: a magnetoencephalographic study. Biological Psychology, 2003, 63, 129-147.	2.2	50
113	Chapter 6 Coherence, cortico-cortical. Handbook of Clinical Neurophysiology, 2003, 1, 77-85.	0.0	2
114	Motor learning elicited by voluntary drive. Brain, 2003, 126, 866-872.	7.6	555
115	Behavioral significance of input-dependent plasticity of human somatosensory cortex. NeuroReport, 2003, 14, 543-546.	1.2	65
116	Functional Organization of Primary Somatosensory Cortex Depends on the Focus of Attention. NeuroImage, 2002, 17, 1451-1458.	4.2	92
117	Effects of water on cortical excitability in humans. European Journal of Neuroscience, 2002, 15, 528-538.	2.6	14
118	Hyperexcitatory activity in visual cortex in homonymous hemianopia after stroke. Clinical Neurophysiology, 2001, 112, 336-343.	1.5	15
119	Selective attention modulates somatosensory cortex organization. NeuroImage, 2001, 13, 1134.	4.2	0
120	Differential enhancement of motor excitability with active and passive motor training. NeuroImage, 2001, 13, 1217.	4.2	1
121	The distribution of mislocalizations across fingers demonstrates training-induced neuroplastic changes in somatosensory cortex. Experimental Brain Research, 2001, 139, 435-442.	1.5	53
122	Dynamic organization of the somatosensory cortex induced by motor activity. Brain, 2001, 124, 2259-2267.	7.6	80
123	Activity patterns of human somatosensory cortex adapt dynamically to stimulus properties. NeuroReport, 2000, 11, 2977-2980.	1.2	29
124	Differential Activation in Somatosensory Cortex for Different Discrimination Tasks. Journal of Neuroscience, 2000, 20, 446-450.	3.6	117
125	Coherence of gamma-band EEG activity as a basis for associative learning. Nature, 1999, 397, 434-436.	27.8	836
126	Modeling extended sources of event-related potentials using anatomical and physiological constraints. Human Brain Mapping, 1999, 8, 182-193.	3.6	47

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127	The polar average reference effect: a bias in estimating the head surface integral in EEG recording. Clinical Neurophysiology, 1999, 110, 1149-1155.	1.5	248
128	Gamma-band MEG activity to coherent motion depends on task-driven attention. NeuroReport, 1999, 10, 1997-2000.	1.2	48
129	Adaptive AR modeling of nonstationary time series by means of Kalman filtering. IEEE Transactions on Biomedical Engineering, 1998, 45, 553-562.	4.2	260
130	The cortical somatotopic map and phantom phenomena in subjects with congenital limb atrophy and traumatic amputees with phantom limb pain. European Journal of Neuroscience, 1998, 10, 1095-1102.	2.6	115
131	Event-Related Brain Potentials Following Incorrect Feedback in a Time-Estimation Task: Evidence for a "Generic―Neural System for Error Detection. Journal of Cognitive Neuroscience, 1997, 9, 788-798.	2.3	1,301
132	Extensive reorganization of primary somatosensory cortex in chronic back pain patients. Neuroscience Letters, 1997, 224, 5-8.	2.1	628
133	Cerebral processing of words and the development of chronic pain. Psychophysiology, 1997, 34, 474-481.	2.4	40
134	Confidence interval of single dipole locations based on EEG data. Brain Topography, 1997, 10, 31-39.	1.8	23
135	Pain-related cerebral potentials in patients with frontal or parietal lobe lesions. Neuroscience Letters, 1995, 197, 137-140.	2.1	9
136	Classical Conditioning of Pain Responses. International Journal of Neuroscience, 1994, 78, 21-32.	1.6	14
137	Neurophysiological differences between perception and imagery. Cognitive Brain Research, 1994, 2, 77-86.	3.0	60
138	A test of brain electrical source analysis (BESA): a simulation study. Electroencephalography and Clinical Neurophysiology, 1994, 91, 295-310.	0.3	100
139	Somatosensory event-related potentials to painful and non-painful stimuli: effects of attention. Pain, 1989, 38, 303-312.	4.2	157
140	Biofeedback of somatosensory event-related potentials: can individual pain sensations be modified by biofeedback-induced self-control of event-related potentials?. Pain, 1988, 35, 205-213.	4.2	37
141	Biofeedback of Visual Evoked Potentials. International Journal of Neuroscience, 1986, 29, 291-303.	1.6	8