List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6145560/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	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
2	Coherence of gamma-band EEG activity as a basis for associative learning. Nature, 1999, 397, 434-436.	27.8	836
3	Review of the BCI Competition IV. Frontiers in Neuroscience, 2012, 6, 55.	2.8	686
4	Extensive reorganization of primary somatosensory cortex in chronic back pain patients. Neuroscience Letters, 1997, 224, 5-8.	2.1	628
5	Motor learning elicited by voluntary drive. Brain, 2003, 126, 866-872.	7.6	555
6	Think to Move: a Neuromagnetic Brain-Computer Interface (BCI) System for Chronic Stroke. Stroke, 2008, 39, 910-917.	2.0	537
7	Hand Movement Direction Decoded from MEG and EEG. Journal of Neuroscience, 2008, 28, 1000-1008.	3.6	376
8	An MEG-based brain–computer interface (BCI). NeuroImage, 2007, 36, 581-593.	4.2	360
9	The musician's brain: functional imaging of amateurs and professionals during performance and imagery. Neurolmage, 2003, 20, 1817-1829.	4.2	318
10	Adaptive AR modeling of nonstationary time series by means of Kalman filtering. IEEE Transactions on Biomedical Engineering, 1998, 45, 553-562.	4.2	260
11	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
12	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
13	The Truth about Lying: Inhibition of the Anterior Prefrontal Cortex Improves Deceptive Behavior. Cerebral Cortex, 2010, 20, 205-213.	2.9	181
14	A review on directional information in neural signals for brain-machine interfaces. Journal of Physiology (Paris), 2009, 103, 244-254.	2.1	162
15	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
16	Somatosensory event-related potentials to painful and non-painful stimuli: effects of attention. Pain, 1989, 38, 303-312.	4.2	157
17	Chronic stroke recovery after combined BCI training and physiotherapy: A case report. Psychophysiology, 2011, 48, 578-582.	2.4	152
18	Mapping entrained brain oscillations during transcranial alternating current stimulation (tACS). NeuroImage, 2016, 140, 89-98.	4.2	144

#	Article	IF	CITATIONS
19	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
20	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
21	Differential Activation in Somatosensory Cortex for Different Discrimination Tasks. Journal of Neuroscience, 2000, 20, 446-450.	3.6	117
22	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
23	How the brain reacts to social stress (exclusion) – A scoping review. Neuroscience and Biobehavioral Reviews, 2017, 80, 80-88.	6.1	105
24	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
25	A test of brain electrical source analysis (BESA): a simulation study. Electroencephalography and Clinical Neurophysiology, 1994, 91, 295-310.	0.3	100
26	Functional Organization of Primary Somatosensory Cortex Depends on the Focus of Attention. NeuroImage, 2002, 17, 1451-1458.	4.2	92
27	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
28	Dynamic organization of the somatosensory cortex induced by motor activity. Brain, 2001, 124, 2259-2267.	7.6	80
29	Somatosensory system in two types of motor reorganization in congenital hemiparesis: Topography and function. Human Brain Mapping, 2009, 30, 776-788.	3.6	80
30	A portable auditory P300 brain–computer interface with directional cues. Clinical Neurophysiology, 2013, 124, 327-338.	1.5	80
31	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
32	Bilateral representations of touch in the primary somatosensory cortex. Cognitive Neuropsychology, 2016, 33, 48-66.	1.1	68
33	Plasticity of premotor cortico-muscular coherence in severely impaired stroke patients with hand paralysis. NeuroImage: Clinical, 2017, 14, 726-733.	2.7	68
34	Behavioral significance of input-dependent plasticity of human somatosensory cortex. NeuroReport, 2003, 14, 543-546.	1.2	65
35	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
36	tACS Phase Locking of Frontal Midline Theta Oscillations Disrupts Working Memory Performance. Frontiers in Cellular Neuroscience, 2016, 10, 120.	3.7	61

#	Article	IF	CITATIONS
37	Neurophysiological differences between perception and imagery. Cognitive Brain Research, 1994, 2, 77-86.	3.0	60
38	Comparing Tactile Pattern and Vibrotactile Frequency Discrimination: A Human fMRI Study. Journal of Neurophysiology, 2010, 103, 3115-3122.	1.8	59
39	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
40	Lateralized alpha-band cortical networks regulate volitional modulation of beta-band sensorimotor oscillations. NeuroImage, 2014, 87, 147-153.	4.2	55
41	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
42	The distribution of mislocalizations across fingers demonstrates training-induced neuroplastic changes in somatosensory cortex. Experimental Brain Research, 2001, 139, 435-442.	1.5	53
43	Gender differences in response to pictures of nudes: a magnetoencephalographic study. Biological Psychology, 2003, 63, 129-147.	2.2	50
44	BOLD Adaptation in Vibrotactile Stimulation: Neuronal Networks Involved in Frequency Discrimination. Journal of Neurophysiology, 2007, 97, 264-271.	1.8	49
45	Gamma-band MEG activity to coherent motion depends on task-driven attention. NeuroReport, 1999, 10, 1997-2000.	1.2	48
46	Magnetoencephalography Reveals a Widespread Increase in Network Connectivity in Idiopathic/Genetic Generalized Epilepsy. PLoS ONE, 2015, 10, e0138119.	2.5	48
47	Modeling extended sources of event-related potentials using anatomical and physiological constraints. Human Brain Mapping, 1999, 8, 182-193.	3.6	47
48	Crossed cortico-spinal motor control after capsular stroke. European Journal of Neuroscience, 2007, 25, 2935-2945.	2.6	45
49	Early integration of bilateral touch in the primary somatosensory cortex. Human Brain Mapping, 2015, 36, 1506-1523.	3.6	45
50	The right hand knows what the left hand is feeling. Experimental Brain Research, 2005, 162, 366-373.	1.5	44
51	Predicting the recognition of natural scenes from single trial MEG recordings of brain activity. NeuroImage, 2008, 42, 1056-1068.	4.2	44
52	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
53	Multimodal effective connectivity analysis reveals seizure focus and propagation in musicogenic epilepsy. NeuroImage, 2015, 113, 70-77.	4.2	41
54	Cerebral processing of words and the development of chronic pain. Psychophysiology, 1997, 34, 474-481.	2.4	40

#	Article	IF	CITATIONS
55	Effects of co-activation on cortical organization and discrimination performance. NeuroReport, 2004, 15, 2669-2672.	1.2	40
56	Task-specific plasticity of somatosensory cortex in patients with writer's cramp. Neurolmage, 2003, 20, 1329-1338.	4.2	39
57	Can magnetoencephalography track the afferent information flow along white matter thalamo-cortical fibers?. NeuroImage, 2012, 60, 1092-1105.	4.2	39
58	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
59	Feature-specific electrophysiological correlates of texture segregation. Vision Research, 2003, 43, 7-19.	1.4	37
60	Increased Functional MEG Connectivity as a Hallmark of MRI-Negative Focal and Generalized Epilepsy. Brain Topography, 2018, 31, 863-874.	1.8	37
61	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
62	Reliability of Magnetoencephalography and High-Density Electroencephalography Resting-State Functional Connectivity Metrics. Brain Connectivity, 2019, 9, 539-553.	1.7	36
63	EEG correlates of coordinate processing during intermanual transfer. Experimental Brain Research, 2004, 159, 161-171.	1.5	34
64	The dynamics of visual pattern masking in natural scene processing: A magnetoencephalography study. Journal of Vision, 2005, 5, 10.	0.3	33
65	Waves of regret: A meg study of emotion and decision-making. Neuropsychologia, 2013, 51, 38-51.	1.6	31
66	Periventricular leukomalacia specifically affects cortical MEG response to biological motion. Annals of Neurology, 2006, 59, 415-419.	5.3	30
67	Instrument specific brain activation in sensorimotor and auditory representation in musicians. NeuroImage, 2013, 74, 37-44.	4.2	30
68	Activity patterns of human somatosensory cortex adapt dynamically to stimulus properties. NeuroReport, 2000, 11, 2977-2980.	1.2	29
69	Cerebro-muscular and cerebro-cerebral coherence in patients with pre- and perinatally acquired unilateral brain lesions. NeuroImage, 2007, 37, 1301-1314.	4.2	29
70	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
71	Neuromagnetic activity in medial parietooccipital cortex reflects the perception of visual motion during eye movements. NeuroImage, 2004, 21, 593-600.	4.2	28
72	Cortical processing of near-threshold tactile stimuli: An MEG study. Psychophysiology, 2010, 47, 523-534.	2.4	28

#	Article	IF	CITATIONS
73	Inferior frontal gyrus links visual and motor cortices during a visuomotor precision grip force task. Brain Research, 2016, 1650, 252-266.	2.2	28
74	Volitional Control of Neuromagnetic Coherence. Frontiers in Neuroscience, 2012, 6, 189.	2.8	27
75	Somatotopy and temporal dynamics of sensorimotor interactions: evidence from double afferent inhibition. European Journal of Neuroscience, 2015, 41, 1459-1465.	2.6	26
76	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
77	Cortical activation during word reading and picture naming in dyslexic and non-reading-impaired children. Clinical Neurophysiology, 2006, 117, 1085-1097.	1.5	25
78	Neural Correlates of Finger Gnosis. Journal of Neuroscience, 2014, 34, 9012-9023.	3.6	25
79	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
80	Confidence interval of single dipole locations based on EEG data. Brain Topography, 1997, 10, 31-39.	1.8	23
81	Coordinate processing during the left-to-right hand transfer investigated by EEG. Experimental Brain Research, 2006, 168, 547-556.	1.5	23
82	Neuromagnetic Response to Body Motion and Brain Connectivity. Journal of Cognitive Neuroscience, 2009, 21, 837-846.	2.3	23
83	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
84	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
85	The temporal sequence of magnetic brain activity for food categorization and memorization — an exploratory study. Neurolmage, 2010, 52, 1584-1591.	4.2	22
86	Cortical correlates of susceptibility to upper limb freezing in Parkinson's disease. Clinical Neurophysiology, 2016, 127, 2386-2393.	1.5	22
87	Neuromuscular correlates of subthalamic stimulation and upper limb freezing in Parkinson's disease. Clinical Neurophysiology, 2016, 127, 610-620.	1.5	21
88	Learned control of inter-hemispheric connectivity: Effects on bimanual motor performance. Human Brain Mapping, 2017, 38, 4353-4369.	3.6	20
89	The involvement of ipsilateral temporoparietal cortex in tactile pattern working memory as reflected in beta event-related desynchronization. NeuroImage, 2007, 37, 1362-1370.	4.2	19
90	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

#	Article	IF	CITATIONS
91	Stimulation artifact source separation (SASS) for assessing electric brain oscillations during transcranial alternating current stimulation (tACS). NeuroImage, 2021, 228, 117571.	4.2	19
92	Distinguishable neural correlates of verbs and nouns: A MEG study on homonyms. Neuropsychologia, 2014, 54, 87-97.	1.6	18
93	Involvement of top-down networks in the perception of facial emotions: A magnetoencephalographic investigation. Neurolmage, 2020, 222, 117075.	4.2	17
94	The mind of the mnemonists: An MEG and neuropsychological study of autistic memory savants. Behavioural Brain Research, 2010, 215, 114-121.	2.2	16
95	Effects of Aversive Stimuli on Prospective Memory. An Event-Related fMRI Study. PLoS ONE, 2011, 6, e26290.	2.5	16
96	Hyperexcitatory activity in visual cortex in homonymous hemianopia after stroke. Clinical Neurophysiology, 2001, 112, 336-343.	1.5	15
97	Objective Measurement of Tactile Mislocalization. IEEE Transactions on Biomedical Engineering, 2005, 52, 728-735.	4.2	15
98	Electromagnetic evidence of altered visual processing in autism. Neuropsychologia, 2011, 49, 3011-3017.	1.6	15
99	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
100	Optically pumped magnetometers reveal fasciculations non-invasively. Clinical Neurophysiology, 2021, 132, 2681-2684.	1.5	15
101	Classical Conditioning of Pain Responses. International Journal of Neuroscience, 1994, 78, 21-32.	1.6	14
102	Effects of water on cortical excitability in humans. European Journal of Neuroscience, 2002, 15, 528-538.	2.6	14
103	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
104	Cortical correlates of perceptual decision making during tactile spatial pattern discrimination. Human Brain Mapping, 2015, 36, 3339-3350.	3.6	14
105	Concurrent use of somatotopic and external reference frames in a tactile mislocalization task. Brain and Cognition, 2017, 111, 25-33.	1.8	14
106	Know Thyself: Behavioral Evidence for a Structural Representation of the Human Body. PLoS ONE, 2009, 4, e5418.	2.5	14
107	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
108	Trading off stimulus salience for identity: A cueing approach to disentangle visual selection strategies. Vision Research, 2015, 113, 116-124.	1.4	12

CHRISTOPH BRAUN

#	Article	IF	CITATIONS
109	Detecting a Cortical Fingerprint of Parkinson's Disease for Closed-Loop Neuromodulation. Frontiers in Neuroscience, 2016, 10, 110.	2.8	11
110	Heritability of Magnetoencephalography Phenotypes Among Patients With Genetic Generalized Epilepsy and Their Siblings. Neurology, 2021, 97, e166-e177.	1.1	11
111	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
112	Pain-related cerebral potentials in patients with frontal or parietal lobe lesions. Neuroscience Letters, 1995, 197, 137-140.	2.1	9
113	Modulation of Visual Stimulus Discrimination by Sustained Focal Attention: An MEG Study. , 2006, 47, 1225.		9
114	Biofeedback of Visual Evoked Potentials. International Journal of Neuroscience, 1986, 29, 291-303.	1.6	8
115	Combined electrophysiological and morphological phenotypes in patients with genetic generalized epilepsy and their healthy siblings. Epilepsia, 2022, 63, 1643-1657.	5.1	8
116	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
117	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
118	Effects of hydration and hyperventilation on cortical complexity. Experimental Brain Research, 2003, 150, 341-355.	1.5	6
119	Mislocalization of nearâ€ŧhreshold tactile stimuli in humans: a central or peripheral phenomenon?. European Journal of Neuroscience, 2011, 33, 499-508.	2.6	6
120	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
121	Detecting nonlinear causal interactions between dynamical systems by non-uniform embedding of multiple time series. , 2010, 2010, 102-5.		5
122	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
123	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
124	Effects of motor activity on the organization of primary somatosensory cortex. NeuroReport, 2006, 17, 39-43.	1.2	4
125	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
126	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

#	Article	IF	CITATIONS
127	Oscillatory Potentials in Achromatopsia as a Tool for Understanding Cone Retinal Functions. International Journal of Molecular Sciences, 2021, 22, 12717.	4.1	4
128	Concurrent stable and unstable cortical correlates of human wrist movements. Human Brain Mapping, 2014, 35, 3867-3879.	3.6	3
129	A Tactile Virtual Reality for the Study of Active Somatosensation. Frontiers in Integrative Neuroscience, 2020, 14, 5.	2.1	3
130	Chapter 6 Coherence, cortico-cortical. Handbook of Clinical Neurophysiology, 2003, 1, 77-85.	0.0	2
131	Brain processes associated with target finding. Cognitive Brain Research, 2005, 25, 926-935.	3.0	2
132	Cortical Reorganization after Damage to the Central Nervous System. Neuro-Ophthalmology, 2009, 33, 142-148.	1.0	2
133	Enhancing the Signal of Corticomuscular Coherence. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-10.	1.3	2
134	Differential enhancement of motor excitability with active and passive motor training. Neurolmage, 2001, 13, 1217.	4.2	1
135	Do cortical maps depend on the timing of sensory input? Experimental evidence and computational model. Biological Cybernetics, 2006, 94, 110-117.	1.3	1
136	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
137	Selective attention modulates somatosensory cortex organization. NeuroImage, 2001, 13, 1134.	4.2	0
138	Reply: Periventricular leukomalacia disrupts brain connectivity. Annals of Neurology, 2006, 60, 269-270.	5.3	0
139	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
140	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
141	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