Andreas Karl Engel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9526897/publications.pdf

Version: 2024-02-01

		8159	3257
279	38,497	76	185
papers	citations	h-index	g-index

324	324	324	22033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oscillatory responses in cat visual cortex exhibit inter-columnar synchronization which reflects global stimulus properties. Nature, 1989, 338, 334-337.	13.7	4,087
2	Dynamic predictions: Oscillations and synchrony in topâ€“down processing. Nature Reviews Neuroscience, 2001, 2, 704-716.	4.9	3,053
3	Beta-band oscillations â€” signalling the status quo?. Current Opinion in Neurobiology, 2010, 20, 156-165.	2.0	2,121
4	Temporal binding and the neural correlates of sensory awareness. Trends in Cognitive Sciences, 2001, 5, 16-25.	4.0	1,314
5	Modulation of Neuronal Interactions Through Neuronal Synchronization. Science, 2007, 316, 1609-1612.	6.0	1,197
6	Spectral fingerprints of large-scale neuronal interactions. Nature Reviews Neuroscience, 2012, 13, 121-134.	4.9	1,122
7	Visuomotor integration is associated with zero time-lag synchronization among cortical areas. Nature, 1997, 385, 157-161.	13.7	1,075
8	Large-scale cortical correlation structure of spontaneous oscillatory activity. Nature Neuroscience, 2012, 15, 884-890.	7.1	989
9	Interhemispheric synchronization of oscillatory neuronal responses in cat visual cortex. Science, 1991, 252, 1177-1179.	6.0	988
10	Trial-by-Trial Coupling of Concurrent Electroencephalogram and Functional Magnetic Resonance Imaging Identifies the Dynamics of Performance Monitoring. Journal of Neuroscience, 2005, 25, 11730-11737.	1.7	934
11	Entrainment of Brain Oscillations by Transcranial Alternating Current Stimulation. Current Biology, 2014, 24, 333-339.	1.8	683
12	Temporal coding in the visual cortex: new vistas on integration in the nervous system. Trends in Neurosciences, 1992, 15, 218-226.	4.2	662
13	Cognitive functions of gamma-band activity: memory match and utilization. Trends in Cognitive Sciences, 2004, 8, 347-355.	4.0	635
14	Integrator or coincidence detector? The role of the cortical neuron revisited. Trends in Neurosciences, 1996, 19, 130-137.	4.2	621
15	Role of Reticular Activation in the Modulation of Intracortical Synchronization. Science, 1996, 272, 271-274.	6.0	564
16	Oscillatory Synchronization in Large-Scale Cortical Networks Predicts Perception. Neuron, 2011, 69, 387-396.	3.8	536
17	Synchronization of oscillatory neuronal responses between striate and extrastriate visual cortical areas of the cat.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 6048-6052.	3.3	474
18	Synchronization of oscillatory responses in visual cortex correlates with perception in interocular rivalry. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12699-12704.	3.3	449

#	Article	IF	Citations
19	Neuronal Synchronization along the Dorsal Visual Pathway Reflects the Focus of Spatial Attention. Neuron, 2008, 60, 709-719.	3.8	448
20	Stimulus-Dependent Neuronal Oscillations in Cat Visual Cortex: Inter-Columnar Interaction as Determined by Cross-Correlation Analysis. European Journal of Neuroscience, 1990, 2, 588-606.	1.2	443
21	Buildup of Choice-Predictive Activity in Human Motor Cortex during Perceptual Decision Making. Current Biology, 2009, 19, 1581-1585.	1.8	434
22	Intrinsic Coupling Modes: Multiscale Interactions in Ongoing Brain Activity. Neuron, 2013, 80, 867-886.	3.8	418
23	Prediction of human errors by maladaptive changes in event-related brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6173-6178.	3.3	415
24	Temporal Binding, Binocular Rivalry, and Consciousness. Consciousness and Cognition, 1999, 8, 128-151.	0.8	411
25	Direct physiological evidence for scene segmentation by temporal coding.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 9136-9140.	3.3	393
26	Invasive recordings from the human brain: clinical insights and beyond. Nature Reviews Neuroscience, 2005, 6, 35-47.	4.9	374
27	Single-trial EEGâ€“fMRI reveals the dynamics of cognitive function. Trends in Cognitive Sciences, 2006, 10, 558-563.	4.0	367
28	Synchronization of oscillatory neuronal responses in cat striate cortex: Temporal properties. Visual Neuroscience, 1992, 8, 337-347.	0.5	358
29	EEG oscillations: From correlation to causality. International Journal of Psychophysiology, 2016, 103, 12-21.	0.5	345
30	Stimulus-Dependent Neuronal Oscillations in Cat Visual Cortex: Receptive Field Properties and Feature Dependence. European Journal of Neuroscience, 1990, 2, 607-619.	1.2	333
31	Crossmodal binding through neural coherence: implications for multisensory processing. Trends in Neurosciences, 2008, 31, 401-409.	4.2	330
32	Where's the action? The pragmatic turn in cognitive science. Trends in Cognitive Sciences, 2013, 17, 202-209.	4.0	326
33	Rapid feature selective neuronal synchronization through correlated latency shifting. Nature Neuroscience, 2001, 4, 194-200.	7.1	309
34	Relation between oscillatory activity and long-range synchronization in cat visual cortex.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 290-294.	3.3	283
35	Oscillatory Neuronal Synchronization in Primary Visual Cortex as a Correlate of Stimulus Selection. Journal of Neuroscience, 2002, 22, 3739-3754.	1.7	273
36	Neuronal assemblies: necessity, signature and detectability. Trends in Cognitive Sciences, 1997, 1, 252-261.	4.0	259

#	Article	IF	Citations
37	What is novel in the novelty oddball paradigm? Functional significance of the novelty P3 event-related potential as revealed by independent component analysis. Cognitive Brain Research, 2005, 22, 309-321.	3.3	247
38	Selective Modulation of Interhemispheric Functional Connectivity by HD-tACS Shapes Perception. PLoS Biology, 2014, 12, e1002031.	2.6	247
39	Reduced Synchronization in the Visual Cortex of Cats with Strabismic Amblyopia. European Journal of Neuroscience, 1994, 6, 1645-1655.	1.2	246
40	Increased functional connectivity indicates the severity of cognitive impairment in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19066-19071.	3.3	241
41	Size matters: effects of stimulus size, duration and eccentricity on the visual gamma-band response. Clinical Neurophysiology, 2004, 115, 1810-1820.	0.7	207
42	Top-down attentional processing enhances auditory evoked gamma band activity. NeuroReport, 2003, 14, 683-686.	0.6	192
43	How Precise is Neuronal Synchronization?. Neural Computation, 1995, 7, 469-485.	1.3	186
44	The Extracellular Matrix Molecule Hyaluronic Acid Regulates Hippocampal Synaptic Plasticity by Modulating Postsynaptic L-Type Ca2+ Channels. Neuron, 2010, 67, 116-128.	3.8	184
45	Improved quality of auditory event-related potentials recorded simultaneously with 3-T fMRI: Removal of the ballistocardiogram artefact. NeuroImage, 2007, 34, 587-597.	2.1	183
46	Antiphasic 40ÂHz Oscillatory Current Stimulation Affects Bistable Motion Perception. Brain Topography, 2014, 27, 158-171.	0.8	167
47	Cortical Hypersynchrony Predicts Breakdown of Sensory Processing during Loss of Consciousness. Current Biology, 2011, 21, 1988-1993.	1.8	164
48	Correlation Analysis of Corticotectal Interactions in the Cat Visual System. Journal of Neurophysiology, 1998, 79, 2394-2407.	0.9	161
49	Activity Parameters of Subthalamic Nucleus Neurons Selectively Predict Motor Symptom Severity in Parkinson's Disease. Journal of Neuroscience, 2014, 34, 6273-6285.	1.7	157
50	The Role of Neuronal Synchronization in Response Selection: A Biologically Plausible Theory of Structured Representations in the Visual Cortex. Journal of Cognitive Neuroscience, 1996, 8, 603-625.	1.1	156
51	Event-related potential correlates of the attentional blink phenomenon. Cognitive Brain Research, 2003, 17, 177-187.	3.3	151
52	Population Activity in the Human Dorsal Pathway Predicts the Accuracy of Visual Motion Detection. Journal of Neurophysiology, 2007, 98, 345-359.	0.9	141
53	Attention to Painful Stimulation Enhances Â-Band Activity and Synchronization in Human Sensorimotor Cortex. Journal of Neuroscience, 2007, 27, 9270-9277.	1.7	140
54	Enhanced EEG gamma-band activity reflects multisensory semantic matching in visual-to-auditory object priming. NeuroImage, 2008, 42, 1244-1254.	2.1	139

#	Article	IF	Citations
55	Phase-Amplitude Coupling and Long-Range Phase Synchronization Reveal Frontotemporal Interactions during Visual Working Memory. Journal of Neuroscience, 2017, 37, 313-322.	1.7	137
56	Cortical Network Dynamics of Perceptual Decision-Making in the Human Brain. Frontiers in Human Neuroscience, 2011, 5, 21.	1.0	136
57	Squint Affects Synchronization of Oscillatory Responses in Cat Visual Cortex. European Journal of Neuroscience, 1993, 5, 501-508.	1.2	135
58	Neural correlates of conscious perception in the attentional blink. NeuroImage, 2005, 24, 704-714.	2.1	132
59	High-Frequency Activity in Human Visual Cortex Is Modulated by Visual Motion Strength. Cerebral Cortex, 2007, 17, 732-741.	1.6	131
60	Correlated firing in sensory-motor systems. Current Opinion in Neurobiology, 1995, 5, 511-519.	2.0	124
61	Multisensory Identification of Natural Objects in a Two-Way Crossmodal Priming Paradigm. Experimental Psychology, 2008, 55, 121-132.	0.3	121
62	Temporal dynamics of access to consciousness in the attentional blink. NeuroImage, 2007, 37, 947-955.	2.1	120
63	Cortical correlates of false expectations during pain intensity judgmentsâ€"a possible manifestation of placebo/nocebo cognitionsâ˜†. Brain, Behavior, and Immunity, 2005, 19, 283-295.	2.0	116
64	The saccadic spike artifact in MEG. NeuroImage, 2012, 59, 1657-1667.	2.1	112
65	Adverse events in deep brain stimulation: A retrospective long-term analysis of neurological, psychiatric and other occurrences. PLoS ONE, 2017, 12, e0178984.	1.1	111
66	Increased Resting-State Gamma-Band Connectivity in First-Episode Schizophrenia. Schizophrenia Bulletin, 2015, 41, 930-939.	2.3	108
67	Auditory novelty oddball allows reliable distinction of topâ€"down and bottomâ€"up processes of attention. International Journal of Psychophysiology, 2002, 46, 77-84.	0.5	106
68	An independent brainâ€"computer interface using covert non-spatial visual selective attention. Journal of Neural Engineering, 2010, 7, 016010.	1.8	104
69	Neural Cell Adhesion Molecule-Associated Polysialic Acid Regulates Synaptic Plasticity and Learning by Restraining the Signaling through GluN2B-Containing NMDA Receptors. Journal of Neuroscience, 2010, 30, 4171-4183.	1.7	103
70	Tactile remapping: from coordinate transformation to integration in sensorimotor processing. Trends in Cognitive Sciences, 2015, 19, 251-258.	4.0	102
71	Spindle activity phase-locked to sleep slow oscillations. NeuroImage, 2016, 134, 607-616.	2.1	101
72	Absence of cross-modal reorganization in the primary auditory cortex of congenitally deaf cats. Experimental Brain Research, 2003, 153, 605-613.	0.7	98

#	Article	IF	Citations
73	Temporal evolution of beta bursts in the parkinsonian cortical and basal ganglia network. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16095-16104.	3.3	98
74	Different Subtypes of Striatal Neurons Are Selectively Modulated by Cortical Oscillations. Journal of Neuroscience, 2009, 29, 4571-4585.	1.7	95
75	Phase-Dependent Suppression of Beta Oscillations in Parkinson's Disease Patients. Journal of Neuroscience, 2019, 39, 1119-1134.	1.7	89
76	The best of both worlds: Phase-reset of human EEG alpha activity and additive power contribute to ERP generation. International Journal of Psychophysiology, 2007, 65, 58-68.	0.5	88
77	Is the synchronization between pallidal and muscle activity in primary dystonia due to peripheral afferance or a motor drive?. Brain, 2008, 131, 473-484.	3.7	88
78	Features of Neuronal Synchrony in Mouse Visual Cortex. Journal of Neurophysiology, 2003, 90, 1115-1123.	0.9	86
79	Novelty and target processing during an auditory novelty oddball: A simultaneous event-related potential and functional magnetic resonance imaging study. NeuroImage, 2008, 40, 869-883.	2.1	83
80	Corticostriatal Coordination through Coherent Phase-Amplitude Coupling. Journal of Neuroscience, 2014, 34, 5938-5948.	1.7	82
81	BiPOLES is an optogenetic tool developed for bidirectional dual-color control of neurons. Nature Communications, 2021, 12, 4527.	5.8	73
82	Oscillatory brain activity during multisensory attention reflects activation, disinhibition, and cognitive control. Scientific Reports, 2016, 6, 32775.	1.6	68
83	Cortical Representation of Interaural Time Difference in Congenital Deafness. Cerebral Cortex, 2010, 20, 492-506.	1.6	67
84	Neural correlates of auditory temporal predictions during sensorimotor synchronization. Frontiers in Human Neuroscience, 2013, 7, 380.	1.0	65
85	Perceptual Integration Deficits in Autism Spectrum Disorders Are Associated with Reduced Interhemispheric Gamma-Band Coherence. Journal of Neuroscience, 2015, 35, 16352-16361.	1.7	65
86	Catecholamines alter the intrinsic variability of cortical population activity and perception. PLoS Biology, 2018, 16, e2003453.	2.6	64
87	Frontal and parietal alpha oscillations reflect attentional modulation of cross-modal matching. Scientific Reports, 2019, 9, 5030.	1.6	64
88	Resting-state theta-band connectivity and verbal memory in schizophrenia and in the high-risk state. Schizophrenia Research, 2015, 161, 299-307.	1.1	63
89	Top-down and bottom-up modulation of pain-induced oscillations. Frontiers in Human Neuroscience, 2015, 9, 375.	1.0	62
90	High-Frequency Whisker Vibration Is Encoded by Phase-Locked Responses of Neurons in the Rat's Barrel Cortex. Journal of Neuroscience, 2008, 28, 5359-5368.	1.7	59

#	Article	IF	Citations
91	Asymmetric pallidal neuronal activity in patients with cervical dystonia. Frontiers in Systems Neuroscience, 2014, 8, 15.	1.2	59
92	Different coupling modes mediate cortical cross-frequency interactions. NeuroImage, 2016, 140, 76-82.	2.1	59
93	Utilizing Retinotopic Mapping for a Multi-Target SSVEP BCI With a Single Flicker Frequency. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1026-1036.	2.7	59
94	Spatio-temporal dynamics of cortical drive to human subthalamic nucleus neurons in Parkinson's disease. Neurobiology of Disease, 2018, 112, 49-62.	2.1	58
95	The influence of music and music therapy on pain-induced neuronal oscillations measured by magnetencephalography. Pain, 2013, 154, 539-547.	2.0	56
96	Ocular dominance in extrastriate cortex of strabismic amblyopic cats. Vision Research, 2002, 42, 29-39.	0.7	55
97	Spatiotemporal Patterns of Cortical Activity with Bilateral Cochlear Implants in Congenital Deafness. Journal of Neuroscience, 2009, 29, 811-827.	1.7	55
98	Viewing a needle pricking a hand that you perceive as yours enhances unpleasantness of pain. Pain, 2012, 153, 1074-1081.	2.0	55
99	Synchronization of visual responses in the superior colliculus of awake cats. NeuroReport, 2001, 12, 43-47.	0.6	53
100	Emotional Facial Expressions Modulate Pain-Induced Beta and Gamma Oscillations in Sensorimotor Cortex. Journal of Neuroscience, 2011, 31, 14542-14550.	1.7	49
101	Crossmodal shaping of pain: a multisensory approach to nociception. Trends in Cognitive Sciences, 2014, 18, 319-327.	4.0	49
102	Synchronised spiking activity underlies phase amplitude coupling in the subthalamic nucleus of Parkinson's disease patients. Neurobiology of Disease, 2019, 127, 101-113.	2.1	49
103	Auditory Evoked Bursts in Mouse Visual Cortex during Isoflurane Anesthesia. PLoS ONE, 2012, 7, e49855.	1.1	48
104	Variability of cortical oscillation patterns: A possible endophenotype in autism spectrum disorders?. Neuroscience and Biobehavioral Reviews, 2016, 71, 590-600.	2.9	45
105	Fast Propagating Waves within the Rodent Auditory Cortex. Cerebral Cortex, 2011, 21, 166-177.	1.6	43
106	Functionally specific oscillatory activity correlates between visual and auditory cortex in the blind. Brain, 2012, 135, 922-934.	3.7	42
107	Restoration of Synaptic Plasticity and Learning in Young and Aged NCAM-Deficient Mice by Enhancing Neurotransmission Mediated by GluN2A-Containing NMDA Receptors. Journal of Neuroscience, 2012, 32, 2263-2275.	1.7	42
108	Patterns of Synchronization in the Superior Colliculus of Anesthetized Cats. Journal of Neuroscience, 1999, 19, 3567-3579.	1.7	41

#	Article	IF	Citations
109	The anterior ectosylvian visual area of the ferret: a homologue for an enigmatic visual cortical area of the cat?. European Journal of Neuroscience, 2005, 22, 706-714.	1.2	41
110	Altered Intrinsic Neuronal Interactions in the Visual Cortex of the Blind. Journal of Neuroscience, 2013, 33, 17072-17080.	1.7	41
111	Modulation of large-scale cortical coupling by transcranial alternating current stimulation. Brain Stimulation, 2019, 12, 1187-1196.	0.7	40
112	Noise alters beta-band activity in superior temporal cortex during audiovisual speech processing. NeuroImage, 2013, 70, 101-112.	2.1	38
113	Neuronal surface changes in the dorsal vagal motor nucleus of the guinea pig in response to axotomy. Journal of Comparative Neurology, 1988, 275, 181-200.	0.9	37
114	Why does the cortex oscillate?. Current Biology, 1992, 2, 332-334.	1.8	36
115	Predictive timing functions of cortical beta oscillations are impaired in Parkinson's disease and influenced by L-DOPA and deep brain stimulation of the subthalamic nucleus. NeuroImage: Clinical, 2015, 9, 436-449.	1.4	36
116	Phase-specific manipulation of rhythmic brain activity by transcranial alternating current stimulation. Brain Stimulation, 2020, 13, 1254-1262.	0.7	36
117	Neurophysiological Relevance of Time. , 1997, , 133-157.		36
118	Oscillatory MEG gamma band activity dissociates perceptual and conceptual aspects of visual object processing: A combined repetition/conceptual priming study. NeuroImage, 2012, 59, 861-871.	2.1	35
119	Selective attention modulates high-frequency activity in the face-processing network. Cortex, 2014, 60, 34-51.	1.1	34
120	Application of a single-flicker online SSVEP BCI for spatial navigation. PLoS ONE, 2017, 12, e0178385.	1.1	34
121	Directive Minds: How Dynamics Shapes Cognition. , 2010, , 219-243.		34
122	Synchronization of neuronal responses in the optic tectum of awake pigeons. Visual Neuroscience, 1996, 13, 575-584.	0.5	33
123	Oscillatory signatures of crossmodal congruence effects: An EEG investigation employing a visuotactile pattern matching paradigm. NeuroImage, 2015, 116, 177-186.	2.1	33
124	Gamma-Band Activity as a Signature for Cross-Modal Priming of Auditory Object Recognition by Active Haptic Exploration. Journal of Neuroscience, 2011, 31, 2502-2510.	1.7	32
125	Microstructural and network abnormalities in headache. Current Opinion in Neurology, 2013, 26, 353-359.	1.8	32
126	Quantitative Sensory Testing in adults with Autism Spectrum Disorders. Journal of Autism and Developmental Disorders, 2017, 47, 1183-1192.	1.7	31

#	Article	IF	Citations
127	Circuit mechanisms for the chemical modulation of cortex-wide network interactions and behavioral variability. Science Advances, 2021, 7, .	4.7	31
128	Synchronization of Sensory Gamma Oscillations Promotes Multisensory Communication. ENeuro, 2019, 6, ENEURO.0101-19.2019.	0.9	31
129	Postnatal development of vimentin-immunoreactive radial glial cells in the primary visual cortex of the cat. Journal of Neurocytology, 1989, 18, 437-450.	1.6	30
130	Oscillatory activity reflects differential use of spatial reference frames by sighted and blind individuals in tactile attention. NeuroImage, 2015, 117, 417-428.	2.1	30
131	Dynamic reconfiguration of cortical functional connectivity across brain states. Scientific Reports, 2017, 7, 8797.	1.6	30
132	Amplitude and Direction of Saccadic Eye Movements Depend on the Synchronicity of Collicular Population Activity. Journal of Neurophysiology, 2004, 92, 424-432.	0.9	29
133	Location, architecture, and retinotopy of the anteromedial lateral suprasylvian visual area (AMLS) of the ferret (Mustela putorius). Visual Neuroscience, 2008, 25, 27-37.	0.5	29
134	Towards unambiguous reporting of complications related to deep brain stimulation surgery: A retrospective single-center analysis and systematic review of the literature. PLoS ONE, 2018, 13, e0198529.	1.1	29
135	Short-term interval aerobic exercise training does not improve memory functioning in relapsing-remitting multiple sclerosisâ€”a randomized controlled trial. PeerJ, 2018, 6, e6037.	0.9	28
136	Localizing bicoherence from EEG and MEG. NeuroImage, 2018, 174, 352-363.	2.1	27
137	Crossmodal bias of visual input on pain perception and pain-induced beta activity. NeuroImage, 2013, 66, 469-478.	2.1	26
138	Spectral fingerprints of largeâ€scale cortical dynamics during ambiguous motion perception. Human Brain Mapping, 2016, 37, 4099-4111.	1.9	25
139	Modulation of neuronal oscillatory activity in the beta- and gamma-band is associated with current individual anxiety levels. NeuroImage, 2018, 178, 423-434.	2.1	25
140	Role of Synchronized Oscillatory Brain Activity for Human Pain Perception. Reviews in the Neurosciences, 2008, 19, 441-50.	1.4	24
141	Waking up the brain: a case study of stimulation-induced wakeful unawareness during anaesthesia. Progress in Brain Research, 2009, 177, 125-145.	0.9	24
142	A discrete computational model of sensorimotor contingencies for object perception and control of behavior. , 2011, , .		24
143	Attention Modulates Visual-Tactile Interaction in Spatial Pattern Matching. PLoS ONE, 2014, 9, e106896.	1.1	24
144	Subthalamic deep brain stimulation improves auditory sensory gating deficit in Parkinsonâ€™s disease. Clinical Neurophysiology, 2015, 126, 565-574.	0.7	24

#	Article	IF	Citations
145	Multiple Transient Signals in Human Visual Cortex Associated with an Elementary Decision. Journal of Neuroscience, 2017, 37, 5744-5757.	1.7	24
146	Cognitive control during audiovisual working memory engages frontotemporal theta-band interactions. Scientific Reports, 2017, 7, 12585.	1.6	24
147	Functional and structural connectivity substrates of cognitive performance in relapsing remitting multiple sclerosis with mild disability. NeuroImage: Clinical, 2020, 25, 102177.	1.4	24
148	Stronger Neural Modulation by Visual Motion Intensity in Autism Spectrum Disorders. PLoS ONE, 2015, 10, e0132531.	1.1	24
149	Changes of acetylcholinesterase molecular forms in regenerating motor neurons. Neuroscience, 1986, 18, 467-473.	1.1	23
150	Extending sensorimotor contingency theory: prediction, planning, and action generation. Adaptive Behavior, 2013, 21, 423-436.	1.1	23
151	Maximizing Information Transfer in SSVEP-Based Brainâ€“Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2017, 64, 381-394.	2.5	23
152	Acupuncture analgesia involves modulation of pain-induced gamma oscillations and cortical network connectivity. Scientific Reports, 2017, 7, 16307.	1.6	23
153	Long-range functional coupling predicts performance: Oscillatory EEG networks in multisensory processing. NeuroImage, 2019, 196, 114-125.	2.1	23
154	Identification of Sensory Blockade by Somatosensory and Pain-induced Evoked Potentials. Anesthesiology, 2007, 106, 707-714.	1.3	23
155	C-fiber-related EEG-oscillations induced by laser radiant heat stimulation of capsaicin-treated skin. Journal of Pain Research, 2009, 2, 49.	0.8	22
156	Gamma-band activity reflects multisensory matching in working memory. Experimental Brain Research, 2009, 198, 363-372.	0.7	22
157	Response properties of local field potentials and multiunit activity in the mouse visual cortex. Neuroscience, 2013, 254, 141-151.	1.1	22
158	Generators and Connectivity of the Early Auditory Evoked Gamma Band Response. Brain Topography, 2015, 28, 865-878.	0.8	22
159	The Sense of Agency Is More Sensitive to Manipulations of Outcome than Movement-Related Feedback Irrespective of Sensory Modality. PLoS ONE, 2016, 11, e0161156.	1.1	22
160	Spike-timing-dependent plasticity can account for connectivity aftereffects of dual-site transcranial alternating current stimulation. NeuroImage, 2021, 237, 118179.	2.1	22
161	STN Stimulation in General Anaesthesia: Evidence Beyond â€˜Evidence-Based Medicineâ€™. , 2013, 117, 19-25.		22
162	Axonal transport of 16S acetylcholinesterase is increased in regenerating peripheral nerve in guinea-pig, but not in rat. Neuroscience, 1988, 24, 729-738.	1.1	21

#	Article	IF	Citations
163	Spectral signatures of viewing a needle approaching one's body when anticipating pain. European Journal of Neuroscience, 2013, 38, 3089-3098.	1.2	21
164	Distinct Functional Connectivity Signatures of Impaired Social Cognition in Multiple Sclerosis. Frontiers in Neurology, 2020, 11, 507.	1.1	21
165	EEG gamma-band activity in rapid serial visual presentation. Experimental Brain Research, 2006, 169, 246-254.	0.7	20
166	Non-rhythmic temporal prediction involves phase resets of low-frequency delta oscillations. NeuroImage, 2021, 224, 117376.	2.1	20
167	Duration of the cue-to-pain delay increases pain intensity: a combined EEG and MEG study. Experimental Brain Research, 2007, 180, 205-215.	0.7	19
168	Effect of subthalamic nucleus deep brain stimulation on driving in Parkinson disease. Neurology, 2014, 82, 32-40.	1.5	19
169	Towards single-trial analysis in cognitive brain research. Trends in Cognitive Sciences, 2007, 11, 502-503.	4.0	18
170	The Feeling of Agency: Empirical Indicators for a Pre-Reflective Level of Action Awareness. Frontiers in Psychology, 2011, 2, 149.	1.1	18
171	On the Blink: The Importance of Target-Distractor Similarity in Eliciting an Attentional Blink with Faces. PLoS ONE, 2012, 7, e41257.	1.1	18
172	Modulating pathological oscillations by rhythmic non-invasive brain stimulationâ€"a therapeutic concept?. Frontiers in Systems Neuroscience, 2015, 9, 33.	1.2	18
173	Regional distribution of cholinergic, catecholaminergic, serotonergic and orexinergic neurons in the brain of two carnivore species: The feliform banded mongoose (Mungos mungo) and the caniform domestic ferret (Mustela putorius furo). Journal of Chemical Neuroanatomy, 2017, 82, 12-28.	1.0	17
174	Intrinsic 40Hz-phase asymmetries predict tACS effects during conscious auditory perception. PLoS ONE, 2019, 14, e0213996.	1.1	17
175	Coupling of gamma band activity to sleep spindle oscillations â€“ a combined EEG/MEG study. NeuroImage, 2021, 224, 117452.	2.1	17
176	Laminar profile of visual response properties in ferret superior colliculus. Journal of Neurophysiology, 2013, 110, 1333-1345.	0.9	16
177	Beta-band activity in auditory pathways reflects speech localization and recognition in bilateral cochlear implant users. Human Brain Mapping, 2014, 35, 3107-3121.	1.9	16
178	Crossmodal Integration Improves Sensory Detection Thresholds in the Ferret. PLoS ONE, 2015, 10, e0124952.	1.1	16
179	Synchrony surfacing: Epicortical recording of correlated action potentials. European Journal of Neuroscience, 2018, 48, 3583-3596.	1.2	16
180	The role of functional and structural interhemispheric auditory connectivity for language lateralization - A combined EEG and DTI study. Scientific Reports, 2018, 8, 15428.	1.6	16

#	Article	IF	Citations
181	A Single-Stimulus, Multitarget BCI Based on Retinotopic Mapping of Motion-Onset VEPs. IEEE Transactions on Biomedical Engineering, 2019, 66, 464-470.	2.5	16
182	Pallidal lead placement in dystonia: leads of non-responders are contained within an anatomical range defined by responders. Journal of Neurology, 2020, 267, 1663-1671.	1.8	16
183	Decomposition of abnormal free locomotor behavior in a rat model of Parkinson's disease. Frontiers in Systems Neuroscience, 2013, 7, 95.	1.2	15
184	Auditory and visual interactions between the superior and inferior colliculi in the ferret. European Journal of Neuroscience, 2015, 41, 1311-1320.	1.2	15
185	Intrinsic coupling modes reveal the functional architecture of cortico-tectal networks. Science Advances, 2015, 1, e1500229.	4.7	15
186	Neuronal Oscillations, Coherence, and Consciousness. , 2016, , 49-60.		15
187	The Callosal Relay Model of Interhemispheric Communication: New Evidence from Effective Connectivity Analysis. Brain Topography, 2018, 31, 218-226.	0.8	15
188	Simultaneous Decoding of Eccentricity and Direction Information for a Single-Flicker SSVEP BCI. Electronics (Switzerland), 2019, 8, 1554.	1.8	15
189	Stress Impairs Intentional Memory Control through Altered Theta Oscillations in Lateral Parietal Cortex. Journal of Neuroscience, 2020, 40, 7739-7748.	1.7	15
190	Speakerâ€“Listener Neural Coupling Reveals an Adaptive Mechanism for Speech Comprehension in a Noisy Environment. Cerebral Cortex, 2021, 31, 4719-4729.	1.6	15
191	Mirror me: Imitative responses in adults with autism. Autism, 2016, 20, 134-144.	2.4	14
192	Phase matters: cancelling pathological tremor by adaptive deep brain stimulation. Brain, 2017, 140, 5-8.	3.7	14
193	Parkinson's disease uncovers an underlying sensitivity of subthalamic nucleus neurons to beta-frequency cortical input in vivo. Neurobiology of Disease, 2020, 146, 105119.	2.1	14
194	Mathematical Relations Between Measures of Brain Connectivity Estimated From Electrophysiological Recordings for Gaussian Distributed Data. Frontiers in Neuroscience, 2020, 14, 577574.	1.4	14
195	Mechanisms Underlying the Generation of Neuronal Oscillations in Cat Visual Cortex. , 1992, , 29-45.		14
196	Time Scales of Sensorimotor Contingencies. Lecture Notes in Computer Science, 2012, , 240-249.	1.0	14
197	Does Time Help to Understand Consciousness?. Consciousness and Cognition, 1999, 8, 260-268.	0.8	13
198	Successful GPi deep brain stimulation in a patient with adult onset primary axial dystonia. Journal of Neurology, Neurosurgery and Psychiatry, 2009, 80, 811-812.	0.9	13

#	Article	IF	Citations
199	Building the Ferretome. Frontiers in Neuroinformatics, 2016, 10, 16.	1.3	13
200	A matter of attention: Crossmodal congruence enhances and impairs performance in a novel trimodal matching paradigm. Neuropsychologia, 2016, 88, 113-122.	0.7	13
201	Working memory training in congenitally blind individuals results in an integration of occipital cortex in functional networks. Behavioural Brain Research, 2018, 348, 31-41.	1.2	13
202	Intrinsic Functional Connectivity Resembles Cortical Architecture at Various Levels of Isoflurane Anesthesia. Cerebral Cortex, 2018, 28, 2991-3003.	1.6	13
203	Data-Driven Classification of Spectral Profiles Reveals Brain Region-Specific Plasticity in Blindness. Cerebral Cortex, 2021, 31, 2505-2522.	1.6	13
204	Conditions of perceptual selection and suppression during interocular rivalry in strabismic and normal cats. Vision Research, 2001, 41, 771-783.	0.7	12
205	STN-DBS Reduces Saccadic Hypometria but Not Visuospatial Bias in Parkinson's Disease Patients. Frontiers in Behavioral Neuroscience, 2016, 10, 85.	1.0	12
206	Modulation of specific components of sleep disturbances by simultaneous subthalamic and nigral stimulation in Parkinson's disease. Parkinsonism and Related Disorders, 2019, 62, 141-147.	1.1	12
207	Crossmodal Congruency Enhances Performance of Healthy Older Adults in Visual-Tactile Pattern Matching. Frontiers in Aging Neuroscience, 2020, 12, 74.	1.7	12
208	Using Sensorimotor Contingencies for Terrain Discrimination and Adaptive Walking Behavior in the Quadruped Robot Puppy. Lecture Notes in Computer Science, 2012, , 54-64.	1.0	12
209	Brief Report: Altered Horizontal Binding of Single Dots to Coherent Motion in Autism. Journal of Autism and Developmental Disorders, 2010, 40, 1549-1551.	1.7	11
210	Impairments in multisensory processing are not universal to the autism spectrum: no evidence for crossmodal priming deficits in Asperger syndrome. Autism Research, 2011, 4, 383-388.	2.1	11
211	Right Temporoparietal Gray Matter Predicts Accuracy of Social Perception in the Autism Spectrum. Journal of Autism and Developmental Disorders, 2014, 44, 1433-1446.	1.7	11
212	Pallidal deep brain stimulation in Huntington's disease. Parkinsonism and Related Disorders, 2015, 21, 1105-1108.	1.1	11
213	Gamma-band activity reflects attentional guidance by facial expression. NeuroImage, 2017, 146, 1142-1148.	2.1	11
214	Context-specific modulation of intrinsic coupling modes shapes multisensory processing. Science Advances, 2019, 5, eaar7633.	4.7	11
215	Robust calculation of slopes in detrended fluctuation analysis and its application to envelopes of human alpha rhythms. Scientific Reports, 2019, 9, 6339.	1.6	11
216	Working memory training integrates visual cortex into beta-band networks in congenitally blind individuals. NeuroImage, 2019, 194, 259-271.	2.1	11

#	Article	IF	Citations
217	Belief of agency changes dynamics in sensorimotor networks. Scientific Reports, 2019, 9, 1995.	1.6	11
218	Effect of sensory stimulation in rat barrel cortex, dorsolateral striatum and on corticostriatal functional connectivity. European Journal of Neuroscience, 2011, 33, 461-470.	1.2	10
219	Alpha-band oscillations reflect external spatial coding for tactile stimuli in sighted, but not in congenitally blind humans. Scientific Reports, 2019, 9, 9215.	1.6	10
220	Blunted neural and psychological stress processing predicts future grey matter atrophy in multiple sclerosis. Neurobiology of Stress, 2020, 13, 100244.	1.9	10
221	Aerobic Exercise Induces Functional and Structural Reorganization of CNS Networks in Multiple Sclerosis: A Randomized Controlled Trial. Frontiers in Human Neuroscience, 2020, 14, 255.	1.0	10
222	Using Sensorimotor Contingencies for Prediction and Action Planning. Lecture Notes in Computer Science, 2012, , 106-116.	1.0	10
223	Deep Brain Stimulation of the Ventrolateral Thalamic Base and Posterior Subthalamic Area in Dystonic Head Tremor. Acta Neurochirurgica Supplementum, 2013, 117, 67-72.	0.5	10
224	A Brain-Computer Interface Based on Multi-Modal Attention. , 2007, , .		9
225	Subthalamotomy in cervical dystonia: A case study of lesion location and clinical outcome. Movement Disorders, 2008, 23, 1751-1756.	2.2	9
226	Capture of visual attention interferes with multisensory speech processing. Frontiers in Integrative Neuroscience, 2012, 6, 67.	1.0	9
227	Synchronized cortico-subthalamic beta oscillations in Parkin-associated Parkinsonâ€™s disease. Clinical Neurophysiology, 2015, 126, 2241-2243.	0.7	9
228	Extensive training leads to temporal and spatial shifts of cortical activity underlying visual category selectivity. NeuroImage, 2016, 134, 22-34.	2.1	9
229	A Spatially-Coded Visual Brain-Computer Interface for Flexible Visual Spatial Information Decoding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 926-933.	2.7	9
230	Sensory capability and information integration independently explain the cognitive status of healthy older adults. Scientific Reports, 2020, 10, 22437.	1.6	9
231	tACS phase-specifically biases brightness perception of flickering light. Brain Stimulation, 2022, 15, 244-253.	0.7	9
232	Mid-Latency Auditory Evoked Potentials Differentially Predict Sedation and Drug Level Under Opioid and Hypnotic Agents. Frontiers in Pharmacology, 2018, 9, 1427.	1.6	8
233	Sex Disparities in the Self-Evaluation of Subthalamic Deep Brain Stimulation Effects on Mood and Personality in Parkinson's Disease Patients. Frontiers in Neurology, 2020, 11, 776.	1.1	8
234	Individual Targeting Increases Control Over Inter-Individual Variability in Simulated Transcranial Electric Fields. IEEE Access, 2020, 8, 182610-182624.	2.6	8

#	Article	IF	Citations
235	Probing neural networks for dynamic switches of communication pathways. PLoS Computational Biology, 2019, 15, e1007551.	1.5	7
236	Parkin deficiency perturbs striatal circuit dynamics. Neurobiology of Disease, 2020, 137, 104737.	2.1	7
237	Preparatory delta phase response is correlated with naturalistic speech comprehension performance. Cognitive Neurodynamics, 2022, 16, 337-352.	2.3	7
238	High-Frequency Stimulation of the Subthalamic Nucleus Counteracts Cortical Expression of Major Histocompatibility Complex Genes in a Rat Model of Parkinsonâ€™s Disease. PLoS ONE, 2014, 9, e91663.	1.1	7
239	Pain processing in multisensory environments. E-Neuroforum, 2010, 16, .	0.2	6
240	Involving Motor Capabilities in the Formation of Sensory Space Representations. PLoS ONE, 2010, 5, e10377.	1.1	6
241	Surprise About Sensory Event Timing Drives Cortical Transients in the Beta Frequency Band. Journal of Neuroscience, 2018, 38, 7600-7610.	1.7	6
242	Stress enhances emotional memory-related theta oscillations in the medial temporal lobe. Neurobiology of Stress, 2021, 15, 100383.	1.9	6
243	Combined Subthalamic and Nigral Stimulation Modulates Temporal Gait Coordination and Cortical Gait-Network Activity in Parkinsonâ€™s Disease. Frontiers in Human Neuroscience, 2022, 16, 812954.	1.0	6
244	An independent brain-computer interface based on covert shifts of non-spatial visual attention. , 2009, 2009, 539-42.		5
245	Unsupervised learning of reflexive and action-based affordances to model adaptive navigational behavior. Frontiers in Neurorobotics, 2010, 4, 2.	1.6	5
246	Rules Got Rhythm. Neuron, 2012, 76, 673-676.	3.8	5
247	Spectral Signatures of Saccade Target Selection. Brain Topography, 2016, 29, 130-148.	0.8	5
248	The hippocampal formation of two carnivore species: The feliform banded mongoose and the caniform domestic ferret. Journal of Comparative Neurology, 2021, 529, 8-27.	0.9	5
249	Implications of Action-Oriented Paradigm Shifts in Cognitive Science. , 2016, , 333-356.		5
250	Intraoperative Mikroelektrodenableitungen in den Basalganglien des Menschen. E-Neuroforum, 2005, 11, 14-24.	0.2	4
251	Multisite Microelectrodes for Use in Human Deep Brain Stimulation. , 2006, , .		4
252	Wideband phase locking to modulated whisker vibration point to a temporal code for texture in the ratâ€™s barrel cortex. Experimental Brain Research, 2015, 233, 2869-2882.	0.7	4

#	Article	IF	Citations
253	Bridging the gap: Synaesthesia and multisensory processes. Neuropsychologia, 2016, 88, 1-4.	0.7	4
254	Training the spatially-coded SSVEP BCI on the fly. Journal of Neuroscience Methods, 2022, 378, 109652.	1.3	4
255	Phase-Amplitude Coupling and Long-Range Phase Synchronization Reveal Frontotemporal Interactions during Visual Working Memory. Journal of Neuroscience, 2017, 37, 313-322.	1.7	3
256	White Matter Microstructure of the Human Mirror Neuron System is Related to Symptom Severity in Adults with Autism. Journal of Autism and Developmental Disorders, 2018, 48, 417-429.	1.7	3
257	Chemosensory Event-Related Potentials in Response to Nasal Propylene Glycol Stimulation. Frontiers in Human Neuroscience, 2019, 13, 99.	1.0	3
258	Subjective Evaluation of Performance in a Collaborative Task Is Better Predicted From Autonomic Response Than From True Achievements. Frontiers in Human Neuroscience, 2020, 14, 234.	1.0	3
259	Socializing Sensorimotor Contingencies. Frontiers in Human Neuroscience, 2021, 15, 624610.	1.0	3
260	Oscillations and Synchrony in the Visual Cortex: Evidence for Their Functional Relevance. , 1994, , 99-114.		3
261	Temporal binding and the neural correlates of consciousness. , 2003, , 132-152.		3
262	Instant classification for the spatially-coded BCI. PLoS ONE, 2022, 17, e0267548.	1.1	3
263	Online 32-channel signal processing and integrated database improve navigation during cranial stereotactic surgeries. International Congress Series, 2004, 1268, 443-448.	0.2	2
264	Post-training Load-Related Changes of Auditory Working Memory â€“ An EEG Study. Frontiers in Human Neuroscience, 2020, 14, 72.	1.0	2
265	The diencephalon of two carnivore species: The feliform banded mongoose and the caniform domestic ferret. Journal of Comparative Neurology, 2021, 529, 52-86.	0.9	2
266	Zeitliche Bindung und der Aufbau visueller ObjektreprÃsentationen. , 1998, , 193-200.		2
267	Editorial: Cross-Modal Learning: Adaptivity, Prediction and Interaction. Frontiers in Neurorobotics, 2022, 16, 889911.	1.6	2
268	Corrigendum to: â€œTowards single-trial analysis in cognitive brain researchâ€• Trends in Cognitive Sciences, 2008, 12, 6.	4.0	1
269	The amygdaloid body of two carnivore species: The feliform banded mongoose and the caniform domestic ferret. Journal of Comparative Neurology, 2021, 529, 28-51.	0.9	1
270	Paradigm Shifts in the Neurobiology of Perception. , 1998, , 178-192.		1

#	Article	IF	Citations
271	Neuronal Oscillatory Signatures of Joint Attention and Intersubjectivity in Arrhythmic Coaction. Frontiers in Human Neuroscience, 2021, 15, 767208.	1.0	1
272	Schmerzverarbeitung in multisensorischer Umgebung. E-Neuroforum, 2010, 16, 172-180.	0.2	0
273	Reward-driven learning of sensorimotor laws and visual features. , 2011, , .		0
274	How fast can f-VEP BCIs ever be?. , 2013, , .		0
275	Context-dependent dynamic weighting of information from multiple sensory modalities. , 2013, , .		0
276	Working memory beta-band networks: Neuroplasticity in the congenitally blind. International Journal of Psychophysiology, 2016, 108, 18.	0.5	0
277	An Oscillator Ensemble Model of Sequence Learning. Frontiers in Integrative Neuroscience, 2019, 13, 43.	1.0	0
278	Kommentare zu C.S. Herrmann. Zeitschrift FÃ¼r Neuropsychologie = Journal of Neuropsychology, 2005, 16, 165-167.	0.2	0
279	Correlated Neuronal Firing: a Clue to the Integrative Functions of Cortex?. Perspectives in Neural Computing, 1992, , 125-139.	0.1	0