

Michael X Cohen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131 papers	12,386 citations	58 h-index	111 g-index
143 ext. papers	14,604 ext. citations	5.6 avg, IF	7.09 L-index

#	Paper	IF	Citations
131	Power spectrum slope confounds estimation of instantaneous oscillatory frequency.. <i>NeuroImage</i> , 2022 , 118929	7.9	2
130	Recommendations and publication guidelines for studies using frequency domain and time-frequency domain analyses of neural time series.. <i>Psychophysiology</i> , 2022 , 59, e14052	4.1	2
129	A tutorial on generalized eigendecomposition for denoising, contrast enhancement, and dimension reduction in multichannel electrophysiology.. <i>NeuroImage</i> , 2021 , 247, 118809	7.9	3
128	Large-Scale and Multiscale Networks in the Rodent Brain during Novelty Exploration. <i>ENeuro</i> , 2021 , 8,	3.9	2
127	Synchronization between Keyboard Typing and Neural Oscillations. <i>Journal of Cognitive Neuroscience</i> , 2021 , 1-15	3.1	1
126	Dynamics of Neural Microstates in the VTA-Striatal-Prefrontal Loop during Novelty Exploration in the Rat. <i>Journal of Neuroscience</i> , 2021 , 41, 6864-6877	6.6	0
125	A data-driven method to identify frequency boundaries in multichannel electrophysiology data. <i>Journal of Neuroscience Methods</i> , 2021 , 347, 108949	3	9
124	Beta2 Oscillations in Hippocampal-Cortical Circuits During Novelty Detection. <i>Frontiers in Systems Neuroscience</i> , 2021 , 15, 617388	3.5	1
123	Narrowband multivariate source separation for semi-blind discovery of experiment contrasts. <i>Journal of Neuroscience Methods</i> , 2021 , 350, 109063	3	4
122	Characterizing neural phase-space trajectories via Principal Louvain Clustering. <i>Journal of Neuroscience Methods</i> , 2021 , 362, 109313	3	0
121	Mesosopic-scale functional networks in the primate amygdala. <i>ELife</i> , 2020 , 9,	8.9	3
120	Midfrontal theta phase coordinates behaviorally relevant brain computations during cognitive control. <i>NeuroImage</i> , 2020 , 207, 116340	7.9	19
119	EEG microstates as a continuous phenomenon. <i>NeuroImage</i> , 2020 , 208, 116454	7.9	19
118	Low-cost and versatile electrodes for extracellular chronic recordings in rodents. <i>Heliyon</i> , 2020 , 6, e048636	3.6	7
117	Cortical responses to whole-body balance perturbations index perturbation magnitude and predict reactive stepping behavior. <i>European Journal of Neuroscience</i> , 2020 ,	3.5	2
116	Multiple Midfrontal Thetas Revealed by Source Separation of Simultaneous MEG and EEG. <i>Journal of Neuroscience</i> , 2020 , 40, 7702-7713	6.6	17
115	A better way to define and describe Morlet wavelets for time-frequency analysis. <i>NeuroImage</i> , 2019 , 199, 81-86	7.9	92

114	Sustaining attention for a prolonged period of time increases temporal variability in cortical responses. <i>Cortex</i> , 2019 , 117, 16-32	3.8	18
113	Activity in Lateral Visual Areas Contributes to Surround Suppression in Awake Mouse V1. <i>Current Biology</i> , 2019 , 29, 4268-4275.e7	6.3	18
112	An Overview of Neural Time Series Analyses 2018 , 1-17		
111	Error blindness and motivational significance: Shifts in networks centering on anterior insula co-vary with error awareness and pupil dilation. <i>Behavioural Brain Research</i> , 2018 , 355, 24-35	3.4	11
110	Using spatiotemporal source separation to identify prominent features in multichannel data without sinusoidal filters. <i>European Journal of Neuroscience</i> , 2018 , 48, 2454-2465	3.5	5
109	Interactions between frontal and posterior oscillatory dynamics support adjustment of stimulus processing during reinforcement learning. <i>NeuroImage</i> , 2018 , 181, 170-181	7.9	6
108	Oscillatory Mechanisms of Response Conflict Elicited by Color and Motion Direction: An Individual Differences Approach. <i>Journal of Cognitive Neuroscience</i> , 2018 , 30, 468-481	3.1	14
107	Evaluating the feasibility of the steady-state visual evoked potential (SSVEP) to study temporal attention. <i>Psychophysiology</i> , 2018 , 55, e13029	4.1	5
106	How the Level of Reward Awareness Changes the Computational and Electrophysiological Signatures of Reinforcement Learning. <i>Journal of Neuroscience</i> , 2018 , 38, 10338-10348	6.6	15
105	Rigor and replication in time-frequency analyses of cognitive electrophysiology data. <i>International Journal of Psychophysiology</i> , 2017 , 111, 80-87	2.9	32
104	Rhythmic entrainment source separation: Optimizing analyses of neural responses to rhythmic sensory stimulation. <i>NeuroImage</i> , 2017 , 147, 43-56	7.9	41
103	Where Does EEG Come From and What Does It Mean?. <i>Trends in Neurosciences</i> , 2017 , 40, 208-218	13.3	203
102	Neurophysiological Oscillations and Action Monitoring 2017 , 242-258		0
101	Comparison of linear spatial filters for identifying oscillatory activity in multichannel data. <i>Journal of Neuroscience Methods</i> , 2017 , 278, 1-12	3	55
100	Individual Alpha Peak Frequency Predicts 10 Hz Flicker Effects on Selective Attention. <i>Journal of Neuroscience</i> , 2017 , 37, 10173-10184	6.6	52
99	Multivariate cross-frequency coupling via generalized eigendecomposition. <i>ELife</i> , 2017 , 6,	8.9	35
98	Frontostriatal anatomical connections predict age- and difficulty-related differences in reinforcement learning. <i>Neurobiology of Aging</i> , 2016 , 46, 1-12	5.6	5
97	Midfrontal theta tracks action monitoring over multiple interactive time scales. <i>NeuroImage</i> , 2016 , 141, 262-272	7.9	26

96	Phase-clustering bias in phase-amplitude cross-frequency coupling and its removal. <i>Journal of Neuroscience Methods</i> , 2015 , 254, 60-72	3	41
95	Grapheme-color synesthesia subtypes: Stable individual differences reflected in posterior alpha-band oscillations. <i>Cognitive Neuroscience</i> , 2015 , 6, 56-67	1.7	6
94	Human Frontal-Subcortical Circuit and Asymmetric Belief Updating. <i>Journal of Neuroscience</i> , 2015 , 35, 14077-85	6.6	44
93	(No) time for control: Frontal theta dynamics reveal the cost of temporally guided conflict anticipation. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2015 , 15, 787-807	3.5	45
92	Neural Correlates of Visual Short-term Memory Dissociate between Fragile and Working Memory Representations. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 2477-90	3.1	23
91	Effects of time lag and frequency matching on phase-based connectivity. <i>Journal of Neuroscience Methods</i> , 2015 , 250, 137-46	3	71
90	Comparison of different spatial transformations applied to EEG data: A case study of error processing. <i>International Journal of Psychophysiology</i> , 2015 , 97, 245-57	2.9	57
89	Frequency Band-Specific Electrical Brain Stimulation Modulates Cognitive Control Processes. <i>PLoS ONE</i> , 2015 , 10, e0138984	3.7	30
88	A statistical comparison of EEG time- and time-frequency domain representations of error processing. <i>Brain Research</i> , 2015 , 1618, 222-30	3.7	27
87	Attention and temporal expectations modulate power, not phase, of ongoing alpha oscillations. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 1573-86	3.1	72
86	Interregional alpha-band synchrony supports temporal cross-modal integration. <i>NeuroImage</i> , 2014 , 101, 404-15	7.9	43
85	Fluctuations in oscillation frequency control spike timing and coordinate neural networks. <i>Journal of Neuroscience</i> , 2014 , 34, 8988-98	6.6	86
84	A neural microcircuit for cognitive conflict detection and signaling. <i>Trends in Neurosciences</i> , 2014 , 37, 480-90	13.3	201
83	Aging affects medial but not anterior frontal learning-related theta oscillations. <i>Neurobiology of Aging</i> , 2014 , 35, 692-704	5.6	30
82	Subthreshold muscle twitches dissociate oscillatory neural signatures of conflicts from errors. <i>NeuroImage</i> , 2014 , 86, 503-13	7.9	63
81	Five methodological challenges in cognitive electrophysiology. <i>NeuroImage</i> , 2014 , 85 Pt 2, 702-10	7.9	39
80	Fronto-parietal network oscillations reveal relationship between working memory capacity and cognitive control. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 761	3.3	56
79	Reply to "Higher response time increases theta energy, conflict increases response time". <i>Clinical Neurophysiology</i> , 2013 , 124, 1479-81	4.3	10

78	Midfrontal conflict-related theta-band power reflects neural oscillations that predict behavior. <i>Journal of Neurophysiology</i> , 2013 , 110, 2752-63	3.2	244
77	Dynamic interactions between large-scale brain networks predict behavioral adaptation after perceptual errors. <i>Cerebral Cortex</i> , 2013 , 23, 1061-72	5.1	107
76	EEG source reconstruction reveals frontal-parietal dynamics of spatial conflict processing. <i>PLoS ONE</i> , 2013 , 8, e57293	3.7	79
75	Brain connectivity and high functioning autism: a promising path of research that needs refined models, methodological convergence, and stronger behavioral links. <i>Neuroscience and Biobehavioral Reviews</i> , 2012 , 36, 604-25	9	284
74	Top-down-directed synchrony from medial frontal cortex to nucleus accumbens during reward anticipation. <i>Human Brain Mapping</i> , 2012 , 33, 246-52	5.9	58
73	Response to Holroyd et al.: oscillation dynamics enable (the investigation of) networks. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 193	14	1
72	Corticostriatal connectivity underlies individual differences in the balance between habitual and goal-directed action control. <i>Journal of Neuroscience</i> , 2012 , 32, 12066-75	6.6	277
71	Theta dynamics reveal domain-specific control over stimulus and response conflict. <i>Journal of Cognitive Neuroscience</i> , 2012 , 24, 1264-74	3.1	141
70	Effective deep brain stimulation in heroin addiction: a case report with complementary intracranial electroencephalogram. <i>Biological Psychiatry</i> , 2012 , 71, e35-7	7.9	89
69	The role of consciousness in cognitive control and decision making. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 121	3.3	95
68	Individual differences in risky decision-making among seniors reflect increased reward sensitivity. <i>Frontiers in Neuroscience</i> , 2012 , 6, 111	5.1	19
67	Striatum-medial prefrontal cortex connectivity predicts developmental changes in reinforcement learning. <i>Cerebral Cortex</i> , 2012 , 22, 1247-55	5.1	177
66	Frontal theta reflects uncertainty and unexpectedness during exploration and exploitation. <i>Cerebral Cortex</i> , 2012 , 22, 2575-86	5.1	132
65	Not all errors are alike: theta and alpha EEG dynamics relate to differences in error-processing dynamics. <i>Journal of Neuroscience</i> , 2012 , 32, 16795-806	6.6	138
64	Switch-related and general preparation processes in task-switching: evidence from multivariate pattern classification of EEG data. <i>Journal of Neuroscience</i> , 2012 , 32, 18253-8	6.6	28
63	Scientific Recordings in Deep Brain Stimulation 2012 , 183-191		2
62	How the aging brain translates motivational incentive into action: the role of individual differences in striato-cortical white matter pathways. <i>Developmental Cognitive Neuroscience</i> , 2011 , 1, 530-9	5.5	8
61	Frontal oscillatory dynamics predict feedback learning and action adjustment. <i>Journal of Cognitive Neuroscience</i> , 2011 , 23, 4106-21	3.1	120

60	Error-related medial frontal theta activity predicts cingulate-related structural connectivity. <i>NeuroImage</i> , 2011 , 55, 1373-83	7.9	142
59	Subthalamic nucleus stimulation reverses mediofrontal influence over decision threshold. <i>Nature Neuroscience</i> , 2011 , 14, 1462-7	25.5	397
58	Cortical electrophysiological network dynamics of feedback learning. <i>Trends in Cognitive Sciences</i> , 2011 , 15, 558-66	14	108
57	Hippocampal-prefrontal connectivity predicts midfrontal oscillations and long-term memory performance. <i>Current Biology</i> , 2011 , 21, 1900-5	6.3	57
56	Event-related potential activity in the basal ganglia differentiates rewards from nonrewards: temporospatial principal components analysis and source localization of the feedback negativity: commentary. <i>Human Brain Mapping</i> , 2011 , 32, 2270-1	5.9	42
55	Single-trial regression elucidates the role of prefrontal theta oscillations in response conflict. <i>Frontiers in Psychology</i> , 2011 , 2, 30	3.4	192
54	It's about Time. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 2	3.3	81
53	Functional connectivity of the striatum links motivation to action control in humans. <i>Journal of Neuroscience</i> , 2011 , 31, 10701-11	6.6	72
52	Deconstructing the "resting" state: exploring the temporal dynamics of frontal alpha asymmetry as an endophenotype for depression. <i>Frontiers in Human Neuroscience</i> , 2010 , 4, 232	3.3	50
51	Prefrontal cortex fails to learn from reward prediction errors in alcohol dependence. <i>Journal of Neuroscience</i> , 2010 , 30, 7749-53	6.6	195
50	Oxytocin enhances amygdala-dependent, socially reinforced learning and emotional empathy in humans. <i>Journal of Neuroscience</i> , 2010 , 30, 4999-5007	6.6	590
49	Nucleus accumbens deep brain stimulation decreases ratings of depression and anxiety in treatment-resistant depression. <i>Biological Psychiatry</i> , 2010 , 67, 110-6	7.9	582
48	Intracranial EEG correlates of expectancy and memory formation in the human hippocampus and nucleus accumbens. <i>Neuron</i> , 2010 , 65, 541-9	13.9	126
47	Neuroelectric signatures of reward learning and decision-making in the human nucleus accumbens. <i>Neuropsychopharmacology</i> , 2009 , 34, 1649-58	8.7	53
46	Good vibrations: cross-frequency coupling in the human nucleus accumbens during reward processing. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 875-89	3.1	151
45	Nuclei accumbens phase synchrony predicts decision-making reversals following negative feedback. <i>Journal of Neuroscience</i> , 2009 , 29, 7591-8	6.6	66
44	Unconscious errors enhance prefrontal-occipital oscillatory synchrony. <i>Frontiers in Human Neuroscience</i> , 2009 , 3, 54	3.3	86
43	Activation of the caudal anterior cingulate cortex due to task-related interference in an auditory Stroop paradigm. <i>Human Brain Mapping</i> , 2009 , 30, 3043-56	5.9	38

42	Connectivity-based segregation of the human striatum predicts personality characteristics. <i>Nature Neuroscience</i> , 2009 , 12, 32-4	25.5	219
41	Interference of working memory load with long-term memory formation. <i>European Journal of Neuroscience</i> , 2009 , 29, 1501-13	3.5	35
40	Gamma-band activity in the human superior temporal sulcus during mentalizing from nonverbal social cues. <i>Psychophysiology</i> , 2009 , 46, 43-51	4.1	15
39	Disturbances of self-other distinction after stimulation of the extrastriate body area in the human brain. <i>Social Neuroscience</i> , 2009 , 4, 40-8	2	25
38	Multiple Systems in Decision Making: A Neurocomputational Perspective. <i>Current Directions in Psychological Science</i> , 2009 , 18, 73-77	6.5	61
37	Neurocomputational models of basal ganglia function in learning, memory and choice. <i>Behavioural Brain Research</i> , 2009 , 199, 141-56	3.4	159
36	Dorsal striatal-midbrain connectivity in humans predicts how reinforcements are used to guide decisions. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 1332-45	3.1	86
35	Oscillatory activity and phase-amplitude coupling in the human medial frontal cortex during decision making. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 390-402	3.1	151
34	Prelude to and resolution of an error: EEG phase synchrony reveals cognitive control dynamics during action monitoring. <i>Journal of Neuroscience</i> , 2009 , 29, 98-105	6.6	442
33	Covariance-based subdivision of the human striatum using T1-weighted MRI. <i>European Journal of Neuroscience</i> , 2008 , 27, 1534-46	3.5	20
32	Medial frontal cortex and response conflict: evidence from human intracranial EEG and medial frontal cortex lesion. <i>Brain Research</i> , 2008 , 1238, 127-42	3.7	125
31	Amygdala tractography predicts functional connectivity and learning during feedback-guided decision-making. <i>NeuroImage</i> , 2008 , 39, 1396-407	7.9	95
30	A role for dopamine in temporal decision making and reward maximization in parkinsonism. <i>Journal of Neuroscience</i> , 2008 , 28, 12294-304	6.6	98
29	Deep brain stimulation to reward circuitry alleviates anhedonia in refractory major depression. <i>Neuropsychopharmacology</i> , 2008 , 33, 368-77	8.7	746
28	Assessing transient cross-frequency coupling in EEG data. <i>Journal of Neuroscience Methods</i> , 2008 , 168, 494-9	3	187
27	Segregating intra-amygdalar responses to dynamic facial emotion with cytoarchitectonic maximum probability maps. <i>Journal of Neuroscience Methods</i> , 2008 , 172, 13-20	3	60
26	Neurocomputational mechanisms of reinforcement-guided learning in humans: a review. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2008 , 8, 113-25	3.5	34
25	Sustained neural activity patterns during working memory in the human medial temporal lobe. <i>Journal of Neuroscience</i> , 2007 , 27, 7807-16	6.6	200

24	Dopamine gene predicts the brain's response to dopaminergic drug. <i>European Journal of Neuroscience</i> , 2007 , 26, 3652-60	3.5	70
23	Individual differences and the neural representations of reward expectation and reward prediction error. <i>Social Cognitive and Affective Neuroscience</i> , 2007 , 2, 20-30	4	52
22	Reinforcement learning signals predict future decisions. <i>Journal of Neuroscience</i> , 2007 , 27, 371-8	6.6	232
21	Reward expectation modulates feedback-related negativity and EEG spectra. <i>NeuroImage</i> , 2007 , 35, 968-78	7.9	389
20	The extrastriate cortex distinguishes between the consequences of one's own and others' behavior. <i>NeuroImage</i> , 2007 , 36, 1004-14	7.9	137
19	Different neural systems adjust motor behavior in response to reward and punishment. <i>NeuroImage</i> , 2007 , 36, 1253-62	7.9	129
18	Neural mechanisms of expert skills in visual working memory. <i>Journal of Neuroscience</i> , 2006 , 26, 11187-96	6.6	107
17	Neural representations of self versus other: visual-spatial perspective taking and agency in a virtual ball-tossing game. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 898-910	3.1	216
16	Individual differences in extraversion and dopamine genetics predict neural reward responses. <i>Cognitive Brain Research</i> , 2005 , 25, 851-61		198
15	Behavioral and neural predictors of upcoming decisions. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2005 , 5, 117-26	3.5	51
14	Functional connectivity with anterior cingulate and orbitofrontal cortices during decision-making. <i>Cognitive Brain Research</i> , 2005 , 23, 61-70		142
13	Functional connectivity with the hippocampus during successful memory formation. <i>Hippocampus</i> , 2005 , 15, 997-1005	3.5	147
12	Working memory maintenance contributes to long-term memory formation: neural and behavioral evidence. <i>Journal of Cognitive Neuroscience</i> , 2005 , 17, 994-1010	3.1	214
11	Avoidant attachment and hemispheric lateralisation of the processing of attachment- and emotion-related words. <i>Cognition and Emotion</i> , 2004 , 18, 799-813	2.3	22
10	Inferior temporal, prefrontal, and hippocampal contributions to visual working memory maintenance and associative memory retrieval. <i>Journal of Neuroscience</i> , 2004 , 24, 3917-25	6.6	275
9	Dissociable correlates of recollection and familiarity within the medial temporal lobes. <i>Neuropsychologia</i> , 2004 , 42, 2-13	3.2	537
8	Narrowband multivariate source separation for semi-blind discovery of experiment contrasts		3
7	A data-driven method to identify frequency boundaries in multichannel electrophysiology data		1

6	Sustaining attention for a prolonged period of time increases temporal variability in cortical responses	1
5	Midfrontal theta phase coordinates behaviorally relevant brain computations during cognitive control	1
4	Rhythmic entrainment source separation: Optimizing analyses of neural responses to rhythmic sensory stimulation	3
3	Individual alpha peak frequency predicts 10 Hz flicker effects on selective attention	1
2	Using spatiotemporal source separation to identify prominent features in multichannel data without sinusoidal filters	1
1	Linking Nonlinear Neural Dynamics to Single-Trial Human Behavior217-232	2