Michael X Cohen

List of Publications by Citations

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	Deep brain stimulation to reward circuitry alleviates anhedonia in refractory major depression. *Neuropsychopharmacology*, **2008**, 33, 368-77	8.7	746
130	Oxytocin enhances amygdala-dependent, socially reinforced learning and emotional empathy in humans. *Journal of Neuroscience*, **2010**, 30, 4999-5007	6.6	590
129	Nucleus accumbens deep brain stimulation decreases ratings of depression and anxiety in treatment-resistant depression. *Biological Psychiatry*, **2010**, 67, 110-6	7.9	582
128	Dissociable correlates of recollection and familiarity within the medial temporal lobes. *Neuropsychologia*, **2004**, 42, 2-13	3.2	537
127	Prelude to and resolution of an error: EEG phase synchrony reveals cognitive control dynamics during action monitoring. *Journal of Neuroscience*, **2009**, 29, 98-105	6.6	442
126	Subthalamic nucleus stimulation reverses mediofrontal influence over decision threshold. *Nature Neuroscience*, **2011**, 14, 1462-7	25.5	397
125	Reward expectation modulates feedback-related negativity and EEG spectra. *NeuroImage*, **2007**, 35, 968-78	7.9	389
124	Brain connectivity and high functioning autism: a promising path of research that needs refined models, methodological convergence, and stronger behavioral links. *Neuroscience and Biobehavioral Reviews*, **2012**, 36, 604-25	9	284
123	Corticostriatal connectivity underlies individual differences in the balance between habitual and goal-directed action control. *Journal of Neuroscience*, **2012**, 32, 12066-75	6.6	277
122	Inferior temporal, prefrontal, and hippocampal contributions to visual working memory maintenance and associative memory retrieval. *Journal of Neuroscience*, **2004**, 24, 3917-25	6.6	275
121	Midfrontal conflict-related theta-band power reflects neural oscillations that predict behavior. *Journal of Neurophysiology*, **2013**, 110, 2752-63	3.2	244
120	Reinforcement learning signals predict future decisions. *Journal of Neuroscience*, **2007**, 27, 371-8	6.6	232
119	Connectivity-based segregation of the human striatum predicts personality characteristics. *Nature Neuroscience*, **2009**, 12, 32-4	25.5	219
118	Neural representations of self versus other: visual-spatial perspective taking and agency in a virtual ball-tossing game. *Journal of Cognitive Neuroscience*, **2006**, 18, 898-910	3.1	216
117	Working memory maintenance contributes to long-term memory formation: neural and behavioral evidence. *Journal of Cognitive Neuroscience*, **2005**, 17, 994-1010	3.1	214
116	Where Does EEG Come From and What Does It Mean?. *Trends in Neurosciences*, **2017**, 40, 208-218	13.3	203
115	A neural microcircuit for cognitive conflict detection and signaling. *Trends in Neurosciences*, **2014**, 37, 480-90	13.3	201

114	Sustained neural activity patterns during working memory in the human medial temporal lobe. *Journal of Neuroscience*, **2007**, 27, 7807-16	6.6	200
113	Individual differences in extraversion and dopamine genetics predict neural reward responses. *Cognitive Brain Research*, **2005**, 25, 851-61		198
112	Prefrontal cortex fails to learn from reward prediction errors in alcohol dependence. *Journal of Neuroscience*, **2010**, 30, 7749-53	6.6	195
111	Single-trial regression elucidates the role of prefrontal theta oscillations in response conflict. *Frontiers in Psychology*, **2011**, 2, 30	3.4	192
110	Assessing transient cross-frequency coupling in EEG data. *Journal of Neuroscience Methods*, **2008**, 168, 494-9	3	187
109	Striatum-medial prefrontal cortex connectivity predicts developmental changes in reinforcement learning. *Cerebral Cortex*, **2012**, 22, 1247-55	5.1	177
108	Neurocomputational models of basal ganglia function in learning, memory and choice. *Behavioural Brain Research*, **2009**, 199, 141-56	3.4	159
107	Good vibrations: cross-frequency coupling in the human nucleus accumbens during reward processing. *Journal of Cognitive Neuroscience*, **2009**, 21, 875-89	3.1	151
106	Oscillatory activity and phase-amplitude coupling in the human medial frontal cortex during decision making. *Journal of Cognitive Neuroscience*, **2009**, 21, 390-402	3.1	151
105	Functional connectivity with the hippocampus during successful memory formation. *Hippocampus*, **2005**, 15, 997-1005	3.5	147
104	Error-related medial frontal theta activity predicts cingulate-related structural connectivity. *NeuroImage*, **2011**, 55, 1373-83	7.9	142
103	Functional connectivity with anterior cingulate and orbitofrontal cortices during decision-making. *Cognitive Brain Research*, **2005**, 23, 61-70		142
102	Theta dynamics reveal domain-specific control over stimulus and response conflict. *Journal of Cognitive Neuroscience*, **2012**, 24, 1264-74	3.1	141
101	Not all errors are alike: theta and alpha EEG dynamics relate to differences in error-processing dynamics. *Journal of Neuroscience*, **2012**, 32, 16795-806	6.6	138
100	The extrastriate cortex distinguishes between the consequences of oneU own and othersU behavior. *NeuroImage*, **2007**, 36, 1004-14	7.9	137
99	Frontal theta reflects uncertainty and unexpectedness during exploration and exploitation. *Cerebral Cortex*, **2012**, 22, 2575-86	5.1	132
98	Different neural systems adjust motor behavior in response to reward and punishment. *NeuroImage*, **2007**, 36, 1253-62	7.9	129
97	Intracranial EEG correlates of expectancy and memory formation in the human hippocampus and nucleus accumbens. *Neuron*, **2010**, 65, 541-9	13.9	126

96	Medial frontal cortex and response conflict: evidence from human intracranial EEG and medial frontal cortex lesion. *Brain Research*, **2008**, 1238, 127-42	3.7	125
95	Frontal oscillatory dynamics predict feedback learning and action adjustment. *Journal of Cognitive Neuroscience*, **2011**, 23, 4106-21	3.1	120
94	Cortical electrophysiological network dynamics of feedback learning. *Trends in Cognitive Sciences*, **2011**, 15, 558-66	14	108
93	Dynamic interactions between large-scale brain networks predict behavioral adaptation after perceptual errors. *Cerebral Cortex*, **2013**, 23, 1061-72	5.1	107
92	Neural mechanisms of expert skills in visual working memory. *Journal of Neuroscience*, **2006**, 26, 11187-96	6.6	107
91	A role for dopamine in temporal decision making and reward maximization in parkinsonism. *Journal of Neuroscience*, **2008**, 28, 12294-304	6.6	98
90	The role of consciousness in cognitive control and decision making. *Frontiers in Human Neuroscience* , **2012**, 6, 121	3.3	95
89	Amygdala tractography predicts functional connectivity and learning during feedback-guided decision-making. *NeuroImage*, **2008**, 39, 1396-407	7.9	95
88	A better way to define and describe Morlet wavelets for time-frequency analysis. *NeuroImage*, **2019** , 199, 81-86	7.9	92
87	Effective deep brain stimulation in heroin addiction: a case report with complementary intracranial electroencephalogram. *Biological Psychiatry*, **2012**, 71, e35-7	7.9	89
86	Fluctuations in oscillation frequency control spike timing and coordinate neural networks. *Journal of Neuroscience*, **2014**, 34, 8988-98	6.6	86
85	Unconscious errors enhance prefrontal-occipital oscillatory synchrony. *Frontiers in Human Neuroscience*, **2009**, 3, 54	3.3	86
84	Dorsal striatal-midbrain connectivity in humans predicts how reinforcements are used to guide decisions. *Journal of Cognitive Neuroscience*, **2009**, 21, 1332-45	3.1	86
83	It's about Time. *Frontiers in Human Neuroscience*, **2011**, 5, 2	3.3	81
82	EEG source reconstruction reveals frontal-parietal dynamics of spatial conflict processing. *PLoS ONE*, **2013**, 8, e57293	3.7	79
81	Attention and temporal expectations modulate power, not phase, of ongoing alpha oscillations. *Journal of Cognitive Neuroscience*, **2015**, 27, 1573-86	3.1	72
80	Functional connectivity of the striatum links motivation to action control in humans. *Journal of Neuroscience*, **2011**, 31, 10701-11	6.6	72
79	Effects of time lag and frequency matching on phase-based connectivity. *Journal of Neuroscience Methods*, **2015**, 250, 137-46	3	71

78	Dopamine gene predicts the brain's response to dopaminergic drug. *European Journal of Neuroscience*, **2007**, 26, 3652-60	3.5	70
77	Nuclei accumbens phase synchrony predicts decision-making reversals following negative feedback. *Journal of Neuroscience*, **2009**, 29, 7591-8	6.6	66
76	Subthreshold muscle twitches dissociate oscillatory neural signatures of conflicts from errors. *NeuroImage*, **2014**, 86, 503-13	7.9	63
75	Multiple Systems in Decision Making: A Neurocomputational Perspective. *Current Directions in Psychological Science*, **2009**, 18, 73-77	6.5	61
74	Segregating intra-amygdalar responses to dynamic facial emotion with cytoarchitectonic maximum probability maps. *Journal of Neuroscience Methods*, **2008**, 172, 13-20	3	60
73	Top-down-directed synchrony from medial frontal cortex to nucleus accumbens during reward anticipation. *Human Brain Mapping*, **2012**, 33, 246-52	5.9	58
72	Comparison of different spatial transformations applied to EEG data: A case study of error processing. *International Journal of Psychophysiology*, **2015**, 97, 245-57	2.9	57
71	Hippocampal-prefrontal connectivity predicts midfrontal oscillations and long-term memory performance. *Current Biology*, **2011**, 21, 1900-5	6.3	57
70	Fronto-parietal network oscillations reveal relationship between working memory capacity and cognitive control. *Frontiers in Human Neuroscience*, **2014**, 8, 761	3.3	56
69	Comparison of linear spatial filters for identifying oscillatory activity in multichannel data. *Journal of Neuroscience Methods*, **2017**, 278, 1-12	3	55
68	Neuroelectric signatures of reward learning and decision-making in the human nucleus accumbens. *Neuropsychopharmacology*, **2009**, 34, 1649-58	8.7	53
67	Individual Alpha Peak Frequency Predicts 10 Hz Flicker Effects on Selective Attention. *Journal of Neuroscience*, **2017**, 37, 10173-10184	6.6	52
66	Individual differences and the neural representations of reward expectation and reward prediction error. *Social Cognitive and Affective Neuroscience*, **2007**, 2, 20-30	4	52
65	Behavioral and neural predictors of upcoming decisions. *Cognitive, Affective and Behavioral Neuroscience*, **2005**, 5, 117-26	3.5	51
64	Deconstructing the "resting" state: exploring the temporal dynamics of frontal alpha asymmetry as an endophenotype for depression. *Frontiers in Human Neuroscience*, **2010**, 4, 232	3.3	50
63	(No) time for control: Frontal theta dynamics reveal the cost of temporally guided conflict anticipation. *Cognitive, Affective and Behavioral Neuroscience*, **2015**, 15, 787-807	3.5	45
62	Human Frontal-Subcortical Circuit and Asymmetric Belief Updating. *Journal of Neuroscience*, **2015**, 35, 14077-85	6.6	44
61	Interregional alpha-band synchrony supports temporal cross-modal integration. *NeuroImage*, **2014**, 101, 404-15	7.9	43

60	Event-related potential activity in the basal ganglia differentiates rewards from nonrewards: temporospatial principal components analysis and source localization of the feedback negativity: commentary. *Human Brain Mapping*, **2011**, 32, 2270-1	5.9	42
59	Rhythmic entrainment source separation: Optimizing analyses of neural responses to rhythmic sensory stimulation. *NeuroImage*, **2017**, 147, 43-56	7.9	41
58	Phase-clustering bias in phase-amplitude cross-frequency coupling and its removal. *Journal of Neuroscience Methods*, **2015**, 254, 60-72	3	41
57	Five methodological challenges in cognitive electrophysiology. *NeuroImage*, **2014**, 85 Pt 2, 702-10	7.9	39
56	Activation of the caudal anterior cingulate cortex due to task-related interference in an auditory Stroop paradigm. *Human Brain Mapping*, **2009**, 30, 3043-56	5.9	38
55	Multivariate cross-frequency coupling via generalized eigendecomposition. *ELife*, **2017**, 6,	8.9	35
54	Interference of working memory load with long-term memory formation. *European Journal of Neuroscience*, **2009**, 29, 1501-13	3.5	35
53	Neurocomputational mechanisms of reinforcement-guided learning in humans: a review. *Cognitive, Affective and Behavioral Neuroscience*, **2008**, 8, 113-25	3.5	34
52	Rigor and replication in time-frequency analyses of cognitive electrophysiology data. *International Journal of Psychophysiology*, **2017**, 111, 80-87	2.9	32
51	Aging affects medial but not anterior frontal learning-related theta oscillations. *Neurobiology of Aging*, **2014**, 35, 692-704	5.6	30
50	Frequency Band-Specific Electrical Brain Stimulation Modulates Cognitive Control Processes. *PLoS ONE*, **2015**, 10, e0138984	3.7	30
49	Switch-related and general preparation processes in task-switching: evidence from multivariate pattern classification of EEG data. *Journal of Neuroscience*, **2012**, 32, 18253-8	6.6	28
48	A statistical comparison of EEG time- and time-frequency domain representations of error processing. *Brain Research*, **2015**, 1618, 222-30	3.7	27
47	Midfrontal theta tracks action monitoring over multiple interactive time scales. *NeuroImage*, **2016**, 141, 262-272	7.9	26
46	Disturbances of self-other distinction after stimulation of the extrastriate body area in the human brain. *Social Neuroscience*, **2009**, 4, 40-8	2	25
45	Neural Correlates of Visual Short-term Memory Dissociate between Fragile and Working Memory Representations. *Journal of Cognitive Neuroscience*, **2015**, 27, 2477-90	3.1	23
44	Avoidant attachment and hemispheric lateralisation of the processing of attachment- and emotion-related words. *Cognition and Emotion*, **2004**, 18, 799-813	2.3	22
43	Covariance-based subdivision of the human striatum using T1-weighted MRI. *European Journal of Neuroscience*, **2008**, 27, 1534-46	3.5	20

42	Individual differences in risky decision-making among seniors reflect increased reward sensitivity. *Frontiers in Neuroscience*, **2012**, 6, 111	5.1	19
41	Midfrontal theta phase coordinates behaviorally relevant brain computations during cognitive control. *NeuroImage*, **2020**, 207, 116340	7.9	19
40	EEG microstates as a continuous phenomenon. *NeuroImage*, **2020**, 208, 116454	7.9	19
39	Sustaining attention for a prolonged period of time increases temporal variability in cortical responses. *Cortex*, **2019**, 117, 16-32	3.8	18
38	Activity in Lateral Visual Areas Contributes to Surround Suppression in Awake Mouse V1. *Current Biology*, **2019**, 29, 4268-4275.e7	6.3	18
37	Multiple Midfrontal Thetas Revealed by Source Separation of Simultaneous MEG and EEG. *Journal of Neuroscience*, **2020**, 40, 7702-7713	6.6	17
36	Gamma-band activity in the human superior temporal sulcus during mentalizing from nonverbal social cues. *Psychophysiology*, **2009**, 46, 43-51	4.1	15
35	How the Level of Reward Awareness Changes the Computational and Electrophysiological Signatures of Reinforcement Learning. *Journal of Neuroscience*, **2018**, 38, 10338-10348	6.6	15
34	Oscillatory Mechanisms of Response Conflict Elicited by Color and Motion Direction: An Individual Differences Approach. *Journal of Cognitive Neuroscience*, **2018**, 30, 468-481	3.1	14
33	Error blindness and motivational significance: Shifts in networks centering on anterior insula co-vary with error awareness and pupil dilation. *Behavioural Brain Research*, **2018**, 355, 24-35	3.4	11
32	Reply to "Higher response time increases theta energy, conflict increases response time". *Clinical Neurophysiology*, **2013**, 124, 1479-81	4.3	10
31	A data-driven method to identify frequency boundaries in multichannel electrophysiology data. *Journal of Neuroscience Methods*, **2021**, 347, 108949	3	9
30	How the aging brain translates motivational incentive into action: the role of individual differences in striato-cortical white matter pathways. *Developmental Cognitive Neuroscience*, **2011**, 1, 530-9	5.5	8
29	Low-cost and versatile electrodes for extracellular chronic recordings in rodents. *Heliyon*, **2020**, 6, e04867	3.6	7
28	Grapheme-color synesthesia subtypes: Stable individual differences reflected in posterior alpha-band oscillations. *Cognitive Neuroscience*, **2015**, 6, 56-67	1.7	6
27	Interactions between frontal and posterior oscillatory dynamics support adjustment of stimulus processing during reinforcement learning. *NeuroImage*, **2018**, 181, 170-181	7.9	6
26	Using spatiotemporal source separation to identify prominent features in multichannel data without sinusoidal filters. *European Journal of Neuroscience*, **2018**, 48, 2454-2465	3.5	5
25	Frontostriatal anatomical connections predict age- and difficulty-related differences in reinforcement learning. *Neurobiology of Aging*, **2016**, 46, 1-12	5.6	5

24	Evaluating the feasibility of the steady-state visual evoked potential (SSVEP) to study temporal attention. *Psychophysiology*, **2018**, 55, e13029	4.1	5
23	Narrowband multivariate source separation for semi-blind discovery of experiment contrasts. *Journal of Neuroscience Methods*, **2021**, 350, 109063	3	4
22	Narrowband multivariate source separation for semi-blind discovery of experiment contrasts		3
21	A tutorial on generalized eigendecomposition for denoising, contrast enhancement, and dimension reduction in multichannel electrophysiology.. *NeuroImage*, **2021**, 247, 118809	7.9	3
20	Mesoscopic-scale functional networks in the primate amygdala. *ELife*, **2020**, 9,	8.9	3
19	Rhythmic entrainment source separation: Optimizing analyses of neural responses to rhythmic sensory stimulation		3
18	Power spectrum slope confounds estimation of instantaneous oscillatory frequency.. *NeuroImage*, **2022**, 118929	7.9	2
17	Scientific Recordings in Deep Brain Stimulation **2012**, 183-191		2
16	Cortical responses to whole-body balance perturbations index perturbation magnitude and predict reactive stepping behavior. *European Journal of Neuroscience*, **2020**,	3.5	2
15	Large-Scale and Multiscale Networks in the Rodent Brain during Novelty Exploration. *ENeuro*, **2021**, 8,	3.9	2
14	Linking Nonlinear Neural Dynamics to Single-Trial Human Behavior217-232		2
13	Recommendations and publication guidelines for studies using frequency domain and time-frequency domain analyses of neural time series.. *Psychophysiology*, **2022**, 59, e14052	4.1	2
12	Response to Holroyd et al.: oscillation dynamics enable (the investigation of) networks. *Trends in Cognitive Sciences*, **2012**, 16, 193	14	1
11	A data-driven method to identify frequency boundaries in multichannel electrophysiology data		1
10	Sustaining attention for a prolonged period of time increases temporal variability in cortical responses		1
9	Midfrontal theta phase coordinates behaviorally relevant brain computations during cognitive control		1
8	Individual alpha peak frequency predicts 10 Hz flicker effects on selective attention		1
7	Using spatiotemporal source separation to identify prominent features in multichannel data without sinusoidal filters		1

6	Synchronization between Keyboard Typing and Neural Oscillations. *Journal of Cognitive Neuroscience*, **2021**, 1-15	3.1	1
5	Beta2 Oscillations in Hippocampal-Cortical Circuits During Novelty Detection. *Frontiers in Systems Neuroscience*, **2021**, 15, 617388	3.5	1
4	Neurophysiological Oscillations and Action Monitoring **2017**, 242-258		0
3	Dynamics of Neural Microstates in the VTA-Striatal-Prefrontal Loop during Novelty Exploration in the Rat. *Journal of Neuroscience*, **2021**, 41, 6864-6877	6.6	0
2	Characterizing neural phase-space trajectories via Principal Louvain Clustering. *Journal of Neuroscience Methods*, **2021**, 362, 109313	3	0
1	An Overview of Neural Time Series Analyses **2018**, 1-17		