

# Jonathan D Cohen

## List of Publications by Year in descending order

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65  
papers

27,825  
citations

196777

29  
h-index

150775

59  
g-index

67  
all docs

67  
docs citations

67  
times ranked

23559  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Integrative Theory of Prefrontal Cortex Function. <i>Annual Review of Neuroscience</i> , 2001, 24, 167-202.	5.0	10,240
2	Conflict monitoring and cognitive control.. <i>Psychological Review</i> , 2001, 108, 624-652.	2.7	5,904
3	Dissociating the Role of the Dorsolateral Prefrontal and Anterior Cingulate Cortex in Cognitive Control. <i>Science</i> , 2000, 288, 1835-1838.	6.0	3,230
4	On the control of automatic processes: A parallel distributed processing account of the Stroop effect.. <i>Psychological Review</i> , 1990, 97, 332-361.	2.7	1,889
5	The Expected Value of Control: An Integrative Theory of Anterior Cingulate Cortex Function. <i>Neuron</i> , 2013, 79, 217-240.	3.8	1,585
6	Should I stay or should I go? How the human brain manages the trade-off between exploitation and exploration. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 933-942.	1.8	782
7	Toward a Rational and Mechanistic Account of Mental Effort. <i>Annual Review of Neuroscience</i> , 2017, 40, 99-124.	5.0	590
8	Dorsal anterior cingulate cortex and the value of control. <i>Nature Neuroscience</i> , 2016, 19, 1286-1291.	7.1	424
9	Humans use directed and random exploration to solve the exploreâ€œexploit dilemma.. <i>Journal of Experimental Psychology: General</i> , 2014, 143, 2074-2081.	1.5	354
10	Computational perspectives on dopamine function in prefrontal cortex. <i>Current Opinion in Neurobiology</i> , 2002, 12, 223-229.	2.0	333
11	Closed-loop training of attention with real-time brain imaging. <i>Nature Neuroscience</i> , 2015, 18, 470-475.	7.1	254
12	The Vulcanization of the Human Brain: A Neural Perspective on Interactions Between Cognition and Emotion. <i>Journal of Economic Perspectives</i> , 2005, 19, 3-24.	2.7	236
13	A Parallel Distributed Processing Approach to Automaticity. <i>American Journal of Psychology</i> , 1992, 105, 239.	0.5	231
14	Anterior cingulate engagement in a foraging context reflects choice difficulty, not foraging value. <i>Nature Neuroscience</i> , 2014, 17, 1249-1254.	7.1	217
15	Computational approaches to fMRI analysis. <i>Nature Neuroscience</i> , 2017, 20, 304-313.	7.1	185
16	Sequential effects: Superstition or rational behavior?. <i>Advances in Neural Information Processing Systems</i> , 2008, 21, 1873-1880.	2.8	116
17	Money Earlier or Later? Simple Heuristics Explain Intertemporal Choices Better Than Delay Discounting Does. <i>Psychological Science</i> , 2015, 26, 826-833.	1.8	92
18	SIMPLE NEURAL NETWORKS THAT OPTIMIZE DECISIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 803-826.	0.7	81

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19	Increased locus coeruleus tonic activity causes disengagement from a patch-foraging task. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2017, 17, 1073-1083.	1.0	73
20	Rationalizing constraints on the capacity for cognitive control. <i>Trends in Cognitive Sciences</i> , 2021, 25, 757-775.	4.0	71
21	Neural mechanism for the magical number 4: Competitive interactions and nonlinear oscillation. <i>Behavioral and Brain Sciences</i> , 2001, 24, 151-152.	0.4	60
22	The Eighty Five Percent Rule for optimal learning. <i>Nature Communications</i> , 2019, 10, 4646.	5.8	55
23	Dorsal anterior cingulate and ventromedial prefrontal cortex have inverse roles in both foraging and economic choice. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2016, 16, 1127-1139.	1.0	53
24	Reward and Decision. <i>Neuron</i> , 2002, 36, 193-198.	3.8	52
25	The effect of atomoxetine on random and directed exploration in humans. <i>PLoS ONE</i> , 2017, 12, e0176034.	1.1	52
26	Is Activity Silent Working Memory Simply Episodic Memory?. <i>Trends in Cognitive Sciences</i> , 2021, 25, 284-293.	4.0	50
27	Neurocognitive therapeutics: from concept to application in the treatment of negative attention bias. <i>Biology of Mood &amp; Anxiety Disorders</i> , 2015, 5, 1.	4.7	47
28	More Is Meaningful: The Magnitude Effect in Intertemporal Choice Depends on Self-Control. <i>Psychological Science</i> , 2017, 28, 1443-1454.	1.8	46
29	Lateralized Readiness Potentials Reveal Properties of a Neural Mechanism for Implementing a Decision Threshold. <i>PLoS ONE</i> , 2014, 9, e90943.	1.1	42
30	Do You See the Forest or the Tree? Neural Gain and Breadth Versus Focus in Perceptual Processing. <i>Psychological Science</i> , 2016, 27, 1632-1643.	1.8	39
31	Cyclical population dynamics of automatic versus controlled processing: An evolutionary pendulum.. <i>Psychological Review</i> , 2017, 124, 626-642.	2.7	32
32	Dissociable neural mechanisms track evidence accumulation for selection of attention versus action. <i>Nature Communications</i> , 2018, 9, 2485.	5.8	30
33	Full correlation matrix analysis (FCMA): An unbiased method for task-related functional connectivity. <i>Journal of Neuroscience Methods</i> , 2015, 251, 108-119.	1.3	26
34	Evidence accumulation detected in BOLD signal using slow perceptual decision making. <i>Journal of Neuroscience Methods</i> , 2017, 281, 21-32.	1.3	25
35	Neural evidence of the strategic choice between working memory and episodic memory in prospective remembering. <i>Neuropsychologia</i> , 2016, 93, 280-288.	0.7	24
36	People construct simplified mental representations to plan. <i>Nature</i> , 2022, 606, 129-136.	13.7	24

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37	Evolutionary game dynamics of controlled and automatic decision-making. <i>Chaos</i> , 2015, 25, 073120.	1.0	23
38	Refresh my memory: Episodic memory reinstatements intrude on working memory maintenance. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2019, 19, 338-354.	1.0	23
39	Cognitive Neuroscience and Schizophrenia: Translational Research in Need of a Translator. <i>Biological Psychiatry</i> , 2008, 64, 2-3.	0.7	21
40	Noise correlations in the human brain and their impact on pattern classification. <i>PLoS Computational Biology</i> , 2017, 13, e1005674.	1.5	21
41	Rats exhibit similar biases in foraging and intertemporal choice tasks. <i>ELife</i> , 2019, 8, .	2.8	20
42	A martingale analysis of first passage times of time-dependent Wiener diffusion models. <i>Journal of Mathematical Psychology</i> , 2017, 77, 94-110.	1.0	19
43	Persistence, diagnostic specificity and genetic liability for context-processing deficits in schizophrenia. <i>Schizophrenia Research</i> , 2013, 147, 75-80.	1.1	18
44	BrainIAK: The Brain Imaging Analysis Kit. , 2022, 2021, .		18
45	Feasibility of topological data analysis for event-related fMRI. <i>Network Neuroscience</i> , 2019, 3, 695-706.	1.4	17
46	Facilitating open-science with realistic fMRI simulation: validation and application. <i>PeerJ</i> , 2020, 8, e8564.	0.9	16
47	Topological limits to the parallel processing capability of network architectures. <i>Nature Physics</i> , 2021, 17, 646-651.	6.5	14
48	Human inference in changing environments with temporal structure.. <i>Psychological Review</i> , 2021, 128, 879-912.	2.7	10
49	Cloud-Based Functional Magnetic Resonance Imaging Neurofeedback to Reduce the Negative Attentional Bias in Depression: A Proof-of-Concept Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 490-497.	1.1	9
50	Amplified selectivity in cognitive processing implements the neural gain model of norepinephrine function. <i>Behavioral and Brain Sciences</i> , 2016, 39, e206.	0.4	7
51	Real-time full correlation matrix analysis of fMRI data. , 2016, , .		6
52	A pupillary index of susceptibility to decision biases. <i>Nature Human Behaviour</i> , 2021, 5, 653-662.	6.2	6
53	Context Matters: Recovering Human Semantic Structure from Machine Learning Analysis of Large-scale Text Corpora. <i>Cognitive Science</i> , 2022, 46, e13085.	0.8	6
54	A Multi-Area Stochastic Model for a Covert Visual Search Task. <i>PLoS ONE</i> , 2015, 10, e0136097.	1.1	5

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55	Paradoxical Interaction between Ocular Activity, Perception, and Decision Confidence at the Threshold of Vision. PLoS ONE, 2015, 10, e0125278.	1.1	4
56	Attentional Modulation of Brain Responses to Primary Appetitive and Aversive Stimuli. PLoS ONE, 2015, 10, e0130880.	1.1	4
57	Globalization and the rise and fall of cognitive control. Nature Communications, 2020, 11, 3099.	5.8	4
58	The integration of social influence and reward: Computational approaches and neural evidence. Cognitive, Affective and Behavioral Neuroscience, 2017, 17, 784-808.	1.0	3
59	Rational use of episodic and working memory: A normative account of prospective memory. Neuropsychologia, 2021, 158, 107657.	0.7	3
60	RT-Cloud: A cloud-based software framework to simplify and standardize real-time fMRI. NeuroImage, 2022, 257, 119295.	2.1	2
61	THE PHYSICS OF DECISION MAKING: STOCHASTIC DIFFERENTIAL EQUATIONS AS MODELS FOR NEURAL DYNAMICS AND EVIDENCE ACCUMULATION IN CORTICAL CIRCUITS. , 2010, , .		1
62	Multitasking Capacity: Hardness Results and Improved Constructions. SIAM Journal on Discrete Mathematics, 2020, 34, 885-903.	0.4	1
63	SweetPea: A standard language for factorial experimental design. Behavior Research Methods, 2021, , 1.	2.3	0
64	SIMPLE NEURAL NETWORKS THAT OPTIMIZE DECISIONS. World Scientific Series on Nonlinear Science, Series B, 2006, , 107-130.	0.2	0
65	Using Closed-Loop Real-Time fMRI Neurofeedback to Induce Neural Plasticity and Influence Perceptual Similarity. Journal of Vision, 2019, 19, 186c.	0.1	0