Jonathan D Cohen

List of Publications by Year
in descending order

65 papers	27,825 citations	172443 29 h-index	133244 59 g-index
67 all docs	67 docs citations	67 times ranked	20650 citing authors

#	Article	IF	Citations
1	An Integrative Theory of Prefrontal Cortex Function. Annual Review of Neuroscience, 2001, 24, 167-202.	10.7	10,240
2	Conflict monitoring and cognitive control.. Psychological Review, 2001, 108, 624-652.	3.8	5,904
3	Dissociating the Role of the Dorsolateral Prefrontal and Anterior Cingulate Cortex in Cognitive Control. Science, 2000, 288, 1835-1838.	12.6	3,230
4	On the control of automatic processes: A parallel distributed processing account of the Stroop effect.. Psychological Review, 1990, 97, 332-361.	3.8	1,889
5	The Expected Value of Control: An Integrative Theory of Anterior Cingulate Cortex Function. Neuron, 2013, 79, 217-240.	8.1	1,585
6	Should I stay or should I go? How the human brain manages the trade-off between exploitation and exploration. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 933-942.	4.0	782
7	Toward a Rational and Mechanistic Account of Mental Effort. Annual Review of Neuroscience, 2017, 40, 99-124.	10.7	590
8	Dorsal anterior cingulate cortex and the value of control. Nature Neuroscience, 2016, 19, 1286-1291.	14.8	424
9	Humans use directed and random exploration to solve the exploreâ€“exploit dilemma.. Journal of Experimental Psychology: General, 2014, 143, 2074-2081.	2.1	354
10	Computational perspectives on dopamine function in prefrontal cortex. Current Opinion in Neurobiology, 2002, 12, 223-229.	4.2	333
11	Closed-loop training of attention with real-time brain imaging. Nature Neuroscience, 2015, 18, 470-475.	14.8	254
12	The Vulcanization of the Human Brain: A Neural Perspective on Interactions Between Cognition and Emotion. Journal of Economic Perspectives, 2005, 19, 3-24.	5.9	236
13	A Parallel Distributed Processing Approach to Automaticity. American Journal of Psychology, 1992, 105, 239.	0.3	231
14	Anterior cingulate engagement in a foraging context reflects choice difficulty, not foraging value. Nature Neuroscience, 2014, 17, 1249-1254.	14.8	217
15	Computational approaches to fMRI analysis. Nature Neuroscience, 2017, 20, 304-313.	14.8	185
16	Sequential effects: Superstition or rational behavior?. Advances in Neural Information Processing Systems, 2008, 21, 1873-1880.	2.8	116
17	Money Earlier or Later? Simple Heuristics Explain Intertemporal Choices Better Than Delay Discounting Does. Psychological Science, 2015, 26, 826-833.	3.3	92
18	SIMPLE NEURAL NETWORKS THAT OPTIMIZE DECISIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 803-826.	1.7	81

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19	Increased locus coeruleus tonic activity causes disengagement from a patch-foraging task. Cognitive, Affective and Behavioral Neuroscience, 2017, 17, 1073-1083.	2.0	73
20	Rationalizing constraints on the capacity for cognitive control. Trends in Cognitive Sciences, 2021, 25, 757-775.	7.8	71
21	Neural mechanism for the magical number 4: Competitive interactions and nonlinear oscillation. Behavioral and Brain Sciences, 2001, 24, 151-152.	0.7	60
22	The Eighty Five Percent Rule for optimal learning. Nature Communications, 2019, 10, 4646.	12.8	55
23	Dorsal anterior cingulate and ventromedial prefrontal cortex have inverse roles in both foraging and economic choice. Cognitive, Affective and Behavioral Neuroscience, 2016, 16, 1127-1139.	2.0	53
24	Reward and Decision. Neuron, 2002, 36, 193-198.	8.1	52
25	The effect of atomoxetine on random and directed exploration in humans. PLoS ONE, 2017, 12, e0176034.	2.5	52
26	Is Activity Silent Working Memory Simply Episodic Memory?. Trends in Cognitive Sciences, 2021, 25, 284-293.	7.8	50
27	Neurocognitive therapeutics: from concept to application in the treatment of negative attention bias. Biology of Mood & Anxiety Disorders, 2015, 5, 1.	4.7	47
28	More Is Meaningful: The Magnitude Effect in Intertemporal Choice Depends on Self-Control. Psychological Science, 2017, 28, 1443-1454.	3.3	46
29	Lateralized Readiness Potentials Reveal Properties of a Neural Mechanism for Implementing a Decision Threshold. PLoS ONE, 2014, 9, e90943.	2.5	42
30	Do You See the Forest or the Tree? Neural Gain and Breadth Versus Focus in Perceptual Processing. Psychological Science, 2016, 27, 1632-1643.	3.3	39
31	Cyclical population dynamics of automatic versus controlled processing: An evolutionary pendulum.. Psychological Review, 2017, 124, 626-642.	3.8	32
32	Dissociable neural mechanisms track evidence accumulation for selection of attention versus action. Nature Communications, 2018, 9, 2485.	12.8	30
33	Full correlation matrix analysis (FCMA): An unbiased method for task-related functional connectivity. Journal of Neuroscience Methods, 2015, 251, 108-119.	2.5	26
34	Evidence accumulation detected in BOLD signal using slow perceptual decision making. Journal of Neuroscience Methods, 2017, 281, 21-32.	2.5	25
35	Neural evidence of the strategic choice between working memory and episodic memory in prospective remembering. Neuropsychologia, 2016, 93, 280-288.	1.6	24
36	People construct simplified mental representations to plan. Nature, 2022, 606, 129-136.	27.8	24

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37	Evolutionary game dynamics of controlled and automatic decision-making. Chaos, 2015, 25, 073120.	2.5	23
38	Refresh my memory: Episodic memory reinstatements intrude on working memory maintenance. Cognitive, Affective and Behavioral Neuroscience, 2019, 19, 338-354.	2.0	23
39	Cognitive Neuroscience and Schizophrenia: Translational Research in Need of a Translator. Biological Psychiatry, 2008, 64, 2-3.	1.3	21
40	Noise correlations in the human brain and their impact on pattern classification. PLoS Computational Biology, 2017, 13, e1005674.	3.2	21
41	Rats exhibit similar biases in foraging and intertemporal choice tasks. ELife, 2019, 8, .	6.0	20
42	A martingale analysis of first passage times of time-dependent Wiener diffusion models. Journal of Mathematical Psychology, 2017, 77, 94-110.	1.8	19
43	Persistence, diagnostic specificity and genetic liability for context-processing deficits in schizophrenia. Schizophrenia Research, 2013, 147, 75-80.	2.0	18
44	BrainIAK: The Brain Imaging Analysis Kit. , 2022, 2021, .		18
45	Feasibility of topological data analysis for event-related fMRI. Network Neuroscience, 2019, 3, 695-706.	2.6	17
46	Facilitating open-science with realistic fMRI simulation: validation and application. PeerJ, 2020, 8, e8564.	2.0	16
47	Topological limits to the parallel processing capability of network architectures. Nature Physics, 2021, 17, 646-651.	16.7	14
48	Human inference in changing environments with temporal structure.. Psychological Review, 2021, 128, 879-912.	3.8	10
49	Cloud-Based Functional Magnetic Resonance Imaging Neurofeedback to Reduce the Negative Attentional Bias in Depression: A Proof-of-Concept Study. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 490-497.	1.5	9
50	Amplified selectivity in cognitive processing implements the neural gain model of norepinephrine function. Behavioral and Brain Sciences, 2016, 39, e206.	0.7	7
51	Real-time full correlation matrix analysis of fMRI data. , 2016, , .		6
52	A pupillary index of susceptibility to decision biases. Nature Human Behaviour, 2021, 5, 653-662.	12.0	6
53	Context Matters: Recovering Human Semantic Structure from Machine Learning Analysis of Largeâ€Scale Text Corpora. Cognitive Science, 2022, 46, e13085.	1.7	6
54	A Multi-Area Stochastic Model for a Covert Visual Search Task. PLoS ONE, 2015, 10, e0136097.	2.5	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.	2.5	4
56	Attentional Modulation of Brain Responses to Primary Appetitive and Aversive Stimuli. PLoS ONE, 2015, 10, e0130880.	2.5	4
57	Globalization and the rise and fall of cognitive control. Nature Communications, 2020, 11, 3099.	12.8	4
58	The integration of social influence and reward: Computational approaches and neural evidence. Cognitive, Affective and Behavioral Neuroscience, 2017, 17, 784-808.	2.0	3
59	Rational use of episodic and working memory: A normative account of prospective memory. Neuropsychologia, 2021, 158, 107657.	1.6	3
60	RT-Cloud: A cloud-based software framework to simplify and standardize real-time fMRI. NeuroImage, 2022, 257, 119295.	4.2	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.	0.8	1
63	SweetPea: A standard language for factorial experimental design. Behavior Research Methods, 2021, , 1.	4.0	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.	0.3	0