

Jonathan D Cohen

List of Publications by Year in descending order

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Version: 2024-02-01

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 | BrainIAK: The Brain Imaging Analysis Kit. , 2022, 2021, . | | 18 |
| 2 | Context Matters: Recovering Human Semantic Structure from Machine Learning Analysis of Large-scale Text Corpora. Cognitive Science, 2022, 46, e13085. | 0.8 | 6 |
| 3 | RT-Cloud: A cloud-based software framework to simplify and standardize real-time fMRI. NeuroImage, 2022, 257, 119295. | 2.1 | 2 |
| 4 | People construct simplified mental representations to plan. Nature, 2022, 606, 129-136. | 13.7 | 24 |
| 5 | Rational use of episodic and working memory: A normative account of prospective memory. Neuropsychologia, 2021, 158, 107657. | 0.7 | 3 |
| 6 | 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. | 1.1 | 9 |
| 7 | Topological limits to the parallel processing capability of network architectures. Nature Physics, 2021, 17, 646-651. | 6.5 | 14 |
| 8 | Is Activity Silent Working Memory Simply Episodic Memory?. Trends in Cognitive Sciences, 2021, 25, 284-293. | 4.0 | 50 |
| 9 | SweetPea: A standard language for factorial experimental design. Behavior Research Methods, 2021, , 1. | 2.3 | 0 |
| 10 | Rationalizing constraints on the capacity for cognitive control. Trends in Cognitive Sciences, 2021, 25, 757-775. | 4.0 | 71 |
| 11 | Human inference in changing environments with temporal structure.. Psychological Review, 2021, 128, 879-912. | 2.7 | 10 |
| 12 | A pupillary index of susceptibility to decision biases. Nature Human Behaviour, 2021, 5, 653-662. | 6.2 | 6 |
| 13 | Multitasking Capacity: Hardness Results and Improved Constructions. SIAM Journal on Discrete Mathematics, 2020, 34, 885-903. | 0.4 | 1 |
| 14 | Globalization and the rise and fall of cognitive control. Nature Communications, 2020, 11, 3099. | 5.8 | 4 |
| 15 | Facilitating open-science with realistic fMRI simulation: validation and application. PeerJ, 2020, 8, e8564. | 0.9 | 16 |
| 16 | Feasibility of topological data analysis for event-related fMRI. Network Neuroscience, 2019, 3, 695-706. | 1.4 | 17 |
| 17 | The Eighty Five Percent Rule for optimal learning. Nature Communications, 2019, 10, 4646. | 5.8 | 55 |
| 18 | Refresh my memory: Episodic memory reinstatements intrude on working memory maintenance. Cognitive, Affective and Behavioral Neuroscience, 2019, 19, 338-354. | 1.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Rats exhibit similar biases in foraging and intertemporal choice tasks. <i>ELife</i> , 2019, 8, . | 2.8 | 20 |
| 20 | Using Closed-Loop Real-Time fMRI Neurofeedback to Induce Neural Plasticity and Influence Perceptual Similarity. <i>Journal of Vision</i> , 2019, 19, 186c. | 0.1 | 0 |
| 21 | Dissociable neural mechanisms track evidence accumulation for selection of attention versus action. <i>Nature Communications</i> , 2018, 9, 2485. | 5.8 | 30 |
| 22 | Evidence accumulation detected in BOLD signal using slow perceptual decision making. <i>Journal of Neuroscience Methods</i> , 2017, 281, 21-32. | 1.3 | 25 |
| 23 | Computational approaches to fMRI analysis. <i>Nature Neuroscience</i> , 2017, 20, 304-313. | 7.1 | 185 |
| 24 | 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 |
| 25 | Toward a Rational and Mechanistic Account of Mental Effort. <i>Annual Review of Neuroscience</i> , 2017, 40, 99-124. | 5.0 | 590 |
| 26 | 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 |
| 27 | More Is Meaningful: The Magnitude Effect in Intertemporal Choice Depends on Self-Control. <i>Psychological Science</i> , 2017, 28, 1443-1454. | 1.8 | 46 |
| 28 | The integration of social influence and reward: Computational approaches and neural evidence. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2017, 17, 784-808. | 1.0 | 3 |
| 29 | The effect of atomoxetine on random and directed exploration in humans. <i>PLoS ONE</i> , 2017, 12, e0176034. | 1.1 | 52 |
| 30 | Cyclical population dynamics of automatic versus controlled processing: An evolutionary pendulum.. <i>Psychological Review</i> , 2017, 124, 626-642. | 2.7 | 32 |
| 31 | Noise correlations in the human brain and their impact on pattern classification. <i>PLoS Computational Biology</i> , 2017, 13, e1005674. | 1.5 | 21 |
| 32 | 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 |
| 33 | Real-time full correlation matrix analysis of fMRI data. , 2016, , . | | 6 |
| 34 | 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 |
| 35 | Dorsal anterior cingulate cortex and the value of control. <i>Nature Neuroscience</i> , 2016, 19, 1286-1291. | 7.1 | 424 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Paradoxical Interaction between Ocular Activity, Perception, and Decision Confidence at the Threshold of Vision. <i>PLoS ONE</i> , 2015, 10, e0125278. | 1.1 | 4 |
| 39 | Attentional Modulation of Brain Responses to Primary Appetitive and Aversive Stimuli. <i>PLoS ONE</i> , 2015, 10, e0130880. | 1.1 | 4 |
| 40 | A Multi-Area Stochastic Model for a Covert Visual Search Task. <i>PLoS ONE</i> , 2015, 10, e0136097. | 1.1 | 5 |
| 41 | Neurocognitive therapeutics: from concept to application in the treatment of negative attention bias. <i>Biology of Mood & Anxiety Disorders</i> , 2015, 5, 1. | 4.7 | 47 |
| 42 | 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 |
| 43 | 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 |
| 44 | Closed-loop training of attention with real-time brain imaging. <i>Nature Neuroscience</i> , 2015, 18, 470-475. | 7.1 | 254 |
| 45 | Evolutionary game dynamics of controlled and automatic decision-making. <i>Chaos</i> , 2015, 25, 073120. | 1.0 | 23 |
| 46 | Lateralized Readiness Potentials Reveal Properties of a Neural Mechanism for Implementing a Decision Threshold. <i>PLoS ONE</i> , 2014, 9, e90943. | 1.1 | 42 |
| 47 | Humans use directed and random exploration to solve the explore-exploit dilemma. <i>Journal of Experimental Psychology: General</i> , 2014, 143, 2074-2081. | 1.5 | 354 |
| 48 | Anterior cingulate engagement in a foraging context reflects choice difficulty, not foraging value. <i>Nature Neuroscience</i> , 2014, 17, 1249-1254. | 7.1 | 217 |
| 49 | The Expected Value of Control: An Integrative Theory of Anterior Cingulate Cortex Function. <i>Neuron</i> , 2013, 79, 217-240. | 3.8 | 1,585 |
| 50 | Persistence, diagnostic specificity and genetic liability for context-processing deficits in schizophrenia. <i>Schizophrenia Research</i> , 2013, 147, 75-80. | 1.1 | 18 |
| 51 | THE PHYSICS OF DECISION MAKING: STOCHASTIC DIFFERENTIAL EQUATIONS AS MODELS FOR NEURAL DYNAMICS AND EVIDENCE ACCUMULATION IN CORTICAL CIRCUITS. , 2010, , . | | 1 |
| 52 | Cognitive Neuroscience and Schizophrenia: Translational Research in Need of a Translator. <i>Biological Psychiatry</i> , 2008, 64, 2-3. | 0.7 | 21 |
| 53 | Sequential effects: Superstition or rational behavior?. <i>Advances in Neural Information Processing Systems</i> , 2008, 21, 1873-1880. | 2.8 | 116 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | SIMPLE NEURAL NETWORKS THAT OPTIMIZE DECISIONS. World Scientific Series on Nonlinear Science, Series B, 2006, , 107-130. | 0.2 | 0 |
| 56 | The Vulcanization of the Human Brain: A Neural Perspective on Interactions Between Cognition and Emotion. Journal of Economic Perspectives, 2005, 19, 3-24. | 2.7 | 236 |
| 57 | SIMPLE NEURAL NETWORKS THAT OPTIMIZE DECISIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 803-826. | 0.7 | 81 |
| 58 | Reward and Decision. Neuron, 2002, 36, 193-198. | 3.8 | 52 |
| 59 | Computational perspectives on dopamine function in prefrontal cortex. Current Opinion in Neurobiology, 2002, 12, 223-229. | 2.0 | 333 |
| 60 | An Integrative Theory of Prefrontal Cortex Function. Annual Review of Neuroscience, 2001, 24, 167-202. | 5.0 | 10,240 |
| 61 | Conflict monitoring and cognitive control.. Psychological Review, 2001, 108, 624-652. | 2.7 | 5,904 |
| 62 | Neural mechanism for the magical number 4: Competitive interactions and nonlinear oscillation. Behavioral and Brain Sciences, 2001, 24, 151-152. | 0.4 | 60 |
| 63 | Dissociating the Role of the Dorsolateral Prefrontal and Anterior Cingulate Cortex in Cognitive Control. Science, 2000, 288, 1835-1838. | 6.0 | 3,230 |
| 64 | A Parallel Distributed Processing Approach to Automaticity. American Journal of Psychology, 1992, 105, 239. | 0.5 | 231 |
| 65 | On the control of automatic processes: A parallel distributed processing account of the Stroop effect.. Psychological Review, 1990, 97, 332-361. | 2.7 | 1,889 |