Etienne Koechlin

List of Publications by Year in descending order

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81900 189892 11,102 55 39 50 citations h-index g-index papers 61 61 61 9683 docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	The Architecture of Cognitive Control in the Human Prefrontal Cortex. Science, 2003, 302, 1181-1185.	12.6	1,548
2	Imaging unconscious semantic priming. Nature, 1998, 395, 597-600.	27.8	1,100
3	The role of the anterior prefrontal cortex in human cognition. Nature, 1999, 399, 148-151.	27.8	989
4	An information theoretical approach to prefrontal executive function. Trends in Cognitive Sciences, 2007, 11, 229-235.	7.8	893
5	Anterior Prefrontal Function and the Limits of Human Decision-Making. Science, 2007, 318, 594-598.	12.6	656
6	Motivation and cognitive control in the human prefrontal cortex. Nature Neuroscience, 2009, 12, 939-945.	14.8	511
7	Predictive Codes for Forthcoming Perception in the Frontal Cortex. Science, 2006, 314, 1311-1314.	12.6	480
8	Broca's Area and the Hierarchical Organization of Human Behavior. Neuron, 2006, 50, 963-974.	8.1	463
9	Reasoning, Learning, and Creativity: Frontal Lobe Function and Human Decision-Making. PLoS Biology, 2012, 10, e1001293.	5.6	368
10	Foundations of human reasoning in the prefrontal cortex. Science, 2014, 344, 1481-1486.	12.6	345
11	A Neural Representation of Prior Information during Perceptual Inference. Neuron, 2008, 59, 336-347.	8.1	288
12	The Importance of Falsification in Computational Cognitive Modeling. Trends in Cognitive Sciences, 2017, 21, 425-433.	7.8	288
13	Dissociating the role of the medial and lateral anterior prefrontal cortex in human planning. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7651-7656.	7.1	270
14	Managing competing goals â€" a key role for the frontopolar cortex. Nature Reviews Neuroscience, 2017, 18, 645-657.	10.2	208
15	Parieto-frontal coding of reaching: an integrated framework. Experimental Brain Research, 1999, 129, 0325-0346.	1.5	192
16	Primed numbers: Exploring the modularity of numerical representations with masked and unmasked semantic priming. Journal of Experimental Psychology: Human Perception and Performance, 1999, 25, 1882-1905.	0.9	177
17	Executive control and decision-making in the prefrontal cortex. Current Opinion in Behavioral Sciences, 2015, 1, 101-106.	3.9	157
18	The Roles of Timing and Task Order during Task Switching. NeuroImage, 2002, 17, 95-109.	4.2	147

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19	Numerical Transformations in Five-month-old Human Infants. Mathematical Cognition, 1997, 3, 89-104.	0.4	143
20	Divided Representation of Concurrent Goals in the Human Frontal Lobes. Science, 2010, 328, 360-363.	12.6	138
21	Two Mechanisms for Task Switching in the Prefrontal Cortex. Journal of Neuroscience, 2009, 29, 5135-5142.	3.6	137
22	Differential amygdala responses to winning and losing: a functional magnetic resonance imaging study in humans. European Journal of Neuroscience, 2000, 12, 1764-1770.	2.6	121
23	Prefrontal executive function and adaptive behavior in complex environments. Current Opinion in Neurobiology, 2016, 37, 1-6.	4.2	119
24	Computational Precision of Mental Inference as Critical Source of Human Choice Suboptimality. Neuron, 2016, 92, 1398-1411.	8.1	107
25	Damage to the Fronto-Polar Cortex Is Associated with Impaired Multitasking. PLoS ONE, 2008, 3, e3227.	2.5	93
26	Frontal pole function: what is specifically human?. Trends in Cognitive Sciences, 2011, 15, 241.	7.8	87
27	Medial Prefrontal and Subcortical Mechanisms Underlying the Acquisition of Motor and Cognitive Action Sequences in Humans. Neuron, 2002, 35, 371-381.	8.1	77
28	Choice variability and suboptimality in uncertain environments. Current Opinion in Behavioral Sciences, 2016, 11, 109-115.	3.9	77
29	Testing the model of caudo-rostral organization of cognitive control in the human with frontal lesions. Neurolmage, 2014, 84, 1053-1060.	4.2	76
30	Neural mechanisms resolving exploitation-exploration dilemmas in the medial prefrontal cortex. Science, 2020, 369, .	12.6	73
31	Perceptual Classification in a Rapidly Changing Environment. Neuron, 2011, 71, 725-736.	8.1	70
32	Organization of Cognitive Control Within the Lateral Prefrontal Cortex in Schizophrenia. Archives of General Psychiatry, 2009, 66, 377.	12.3	67
33	Economic Value Biases Uncertain Perceptual Choices in the Parietal and Prefrontal Cortices. Frontiers in Human Neuroscience, 2010, 4, 208.	2.0	67
34	An evolutionary computational theory of prefrontal executive function in decision-making. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130474.	4.0	54
35	Rewards and Cognitive Control in the Human Prefrontal Cortex. Cerebral Cortex, 2017, 27, 5024-5039.	2.9	54
36	What Are They Up To? The Role of Sensory Evidence and Prior Knowledge in Action Understanding. PLoS ONE, 2011, 6, e17133.	2.5	50

#	Article	IF	Citations
37	Bayesian inference in populations of cortical neurons: a model of motion integration and segmentation in area MT. Biological Cybernetics, 1999, 80, 25-44.	1.3	48
38	Serial Organization of Human Behavior in the Inferior Parietal Cortex. Journal of Neuroscience, 2007, 27, 11028-11036.	3.6	42
39	The Neuro-Computational Architecture of Value-Based Selection in the Human Brain. Cerebral Cortex, 2018, 28, 585-601.	2.9	40
40	The architecture of cognitive control in schizophrenia. Brain, 2008, 131, 962-970.	7.6	39
41	Prefrontal mechanisms combining rewards and beliefs in human decision-making. Nature Communications, 2019, 10, 301.	12.8	36
42	Computational models of adaptive behavior and prefrontal cortex. Neuropsychopharmacology, 2022, 47, 58-71.	5.4	30
43	Neural coding of prior expectations in hierarchical intention inference. Scientific Reports, 2017, 7, 1278.	3.3	28
44	Impaired Hierarchical Control Within the Lateral Prefrontal Cortex in Schizophrenia. Biological Psychiatry, 2011, 70, 73-80.	1.3	25
45	Prefrontal function and cognitive control: from action to language. Current Opinion in Behavioral Sciences, 2018, 21, 106-111.	3.9	23
46	Imprecise neural computations as a source of adaptive behaviour in volatile environments. Nature Human Behaviour, 2021, 5, 99-112.	12.0	20
47	Human Decision-Making beyond the Rational Decision Theory. Trends in Cognitive Sciences, 2020, 24, 4-6.	7.8	18
48	Temporal chunking as a mechanism for unsupervised learning of task-sets. ELife, 2020, 9, .	6.0	14
49	Dual Population Coding in the Neocortex: A Model of Interaction between Representation and Attention in the Visual Cortex. Journal of Cognitive Neuroscience, 1996, 8, 353-370.	2.3	11
50	Dynamical computational properties of local cortical networks for visual and motor processing: A bayesian framework. Journal of Physiology (Paris), 1996, 90, 257-262.	2.1	5
51	The cognitive architecture of the human lateral prefrontal cortex. , 1993, , 482-509.		2
52	Motivation, Control, and Human Prefrontal Executive Function., 2013,, 279-291.		1
53	203 – How cognitive control is implemented in the prefrontal cortex of patients with schizophrenia. Schizophrenia Research, 2008, 98, 117.	2.0	0
54	Additively Combining Utilities and Beliefs: Research Gaps and Algorithmic Developments. Frontiers in Neuroscience, 2021, 15, 704728.	2.8	0

ARTICLE IF CITATIONS

55 Introduction to Section IV: Cognitive Neuroscience. , 2013, , 275-278.