Stanislas Dehaene

List of Publications by Year
in descending order

94 papers	27,895 citations	58 h-index	94 g-index
		23567	39675
105 all docs	105 docs citations	105 times ranked	13518 citing authors

#	Article	IF	Citations
1	Towards a cognitive neuroscience of consciousness: basic evidence and a workspace framework. Cognition, 2001, 79, 1-37.	2.2	1,941
2	Experimental and Theoretical Approaches to Conscious Processing. Neuron, 2011, 70, 200-227.	8.1	1,768
3	The visual word form area. Brain, 2000, 123, 291-307.	7.6	1,744
4	Cerebral mechanisms of word masking and unconscious repetition priming. Nature Neuroscience, 2001, 4, 752-758.	14.8	1,191
5	Imaging unconscious semantic priming. Nature, 1998, 395, 597-600.	27.8	1,100
6	Languageâ€specific tuning of visual cortex? Functional properties of the Visual Word Form Area. Brain, 2002, 125, 1054-1069.	7.6	1,085
7	The unique role of the visual word form area in reading. Trends in Cognitive Sciences, 2011, 15, 254-262.	7.8	1,039
8	How Learning to Read Changes the Cortical Networks for Vision and Language. Science, 2010, 330, 1359-1364.	12.6	1,030
9	A neuronal model of a global workspace in effortful cognitive tasks. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14529-14534.	7.1	1,013
10	The neural code for written words: a proposal. Trends in Cognitive Sciences, 2005, 9, 335-341.	7.8	918
11	Timing of the brain events underlying access to consciousness during the attentional blink. Nature Neuroscience, 2005, 8, 1391-1400.	14.8	777
12	A neuronal network model linking subjective reports and objective physiological data during conscious perception. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8520-8525.	7.1	735
13	The Cortical Representation of Speech. Journal of Cognitive Neuroscience, 1993, 5, 467-479.	2.3	725
14	Hierarchical Coding of Letter Strings in the Ventral Stream: Dissecting the Inner Organization of the Visual Word-Form System. Neuron, 2007, 55, 143-156.	8.1	612
15	Levels of processing during non-conscious perception: a critical review of visual masking. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 857-875.	4.0	585
16	Brain Dynamics Underlying the Nonlinear Threshold for Access to Consciousness. PLoS Biology, 2007, 5, e260.	5.6	583
17	Signature of consciousness in the dynamics of resting-state brain activity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 887-892.	7.1	558
18	Neural signature of the conscious processing of auditory regularities. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1672-1677.	7.1	539

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19	Cortical representation of the constituent structure of sentences. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2522-2527.	7.1	515
20	Illiterate to literate: behavioural and cerebral changes induced by reading acquisition. Nature Reviews Neuroscience, 2015, 16, 234-244.	10.2	502
21	Conscious Processing and the Global Neuronal Workspace Hypothesis. Neuron, 2020, 105, 776-798.	8.1	487
22	A Neuronal Model of Predictive Coding Accounting for the Mismatch Negativity. Journal of Neuroscience, 2012, 32, 3665-3678.	3.6	476
23	Evidence for a hierarchy of predictions and prediction errors in human cortex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20754-20759.	7.1	419
24	Unconscious Masked Priming Depends on Temporal Attention. Psychological Science, 2002, 13, 416-424.	3.3	417
25	Large scale screening of neural signatures of consciousness in patients in a vegetative or minimally conscious state. Brain, 2014, 137, 2258-2270.	7.6	398
26	What is consciousness, and could machines have it?. Science, 2017, 358, 486-492.	12.6	370
27	The Neural Representation of Sequences: From Transition Probabilities to Algebraic Patterns and Linguistic Trees. Neuron, 2015, 88, 2-19.	8.1	345
28	Is Consciousness a Gradual Phenomenon?: Evidence for an All-or-None Bifurcation During the Attentional Blink. Psychological Science, 2004, 15, 720-728.	3.3	303
29	Human consciousness is supported by dynamic complex patterns of brain signal coordination. Science Advances, 2019, 5, eaat7603.	10.3	296
30	The threshold for conscious report: Signal loss and response bias in visual and frontal cortex. Science, 2018, 360, 537-542.	12.6	264
31	Reading normal and degraded words: Contribution of the dorsal and ventral visual pathways. NeuroImage, 2008, 40, 353-366.	4.2	254
32	Ongoing Spontaneous Activity Controls Access to Consciousness: A Neuronal Model for Inattentional Blindness. PLoS Biology, 2005, 3, e141.	5.6	250
33	Robust EEG-based cross-site and cross-protocol classification of states of consciousness. Brain, 2018, 141, 3179-3192.	7.6	213
34	Neurophysiological dynamics of phrase-structure building during sentence processing. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3669-E3678.	7.1	203
35	Anatomical Connections of the Visual Word Form Area. Journal of Neuroscience, 2014, 34, 15402-15414.	3.6	181
36	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. Trends in Cognitive Sciences, 2015, 19, 374-382.	7.8	180

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37	Disruption of hierarchical predictive coding during sleep. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1353-62.	7.1	172
38	Brain Mechanisms Underlying the Brief Maintenance of Seen and Unseen Sensory Information. Neuron, 2016, 92, 1122-1134.	8.1	164
39	Distinct brain mechanisms for conscious versus subliminal error detection. NeuroImage, 2013, 73, 80-94.	4.2	156
40	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. Neuron, 2018, 100, 1252-1266.e3.	8.1	156
41	Probing consciousness with event-related potentials in the vegetative state. Neurology, 2011, 77, 264-268.	1.1	155
42	Cortical networks for vision and language in dyslexic and normal children of variable socio-economic status. NeuroImage, 2012, 61, 258-274.	4.2	144
43	A Neural Marker of Perceptual Consciousness in Infants. Science, 2013, 340, 376-380.	12.6	141
44	Representation of Numerical and Sequential Patterns in Macaque and Human Brains. Current Biology, 2015, 25, 1966-1974.	3.9	132
45	The Sense of Confidence during Probabilistic Learning: A Normative Account. PLoS Computational Biology, 2015, 11, e1004305.	3.2	119
46	Cortical activity is more stable when sensory stimuli are consciously perceived. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2083-92.	7.1	118
47	Fast reproducible identification and large-scale databasing of individual functional cognitive networks. BMC Neuroscience, 2007, 8, 91.	1.9	112
48	Human Inferences about Sequences: A Minimal Transition Probability Model. PLoS Computational Biology, 2016, 12, e1005260.	3.2	108
49	A number-form area in the blind. Nature Communications, 2015, 6, 6026.	12.8	103
50	A theory of working memory without consciousness or sustained activity. ELife, 2017, 6, .	6.0	100
51	A shared cortical bottleneck underlying Attentional Blink and Psychological Refractory Period. NeuroImage, 2012, 59, 2883-2898.	4.2	90
52	A Hierarchy of Responses to Auditory Regularities in the Macaque Brain. Journal of Neuroscience, 2014, 34, 1127-1132.	3.6	89
53	Resting-state Dynamics as a Cortical Signature of Anesthesia in Monkeys. Anesthesiology, 2018, 129, 942-958.	2.5	87
54	Brain networks for confidence weighting and hierarchical inference during probabilistic learning. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3859-E3868.	7.1	86

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55	A hierarchy of cortical responses to sequence violations in three-month-old infants. Cognition, 2014, 132, 137-150.	2.2	84
56	Can the meaning of multiple words be integrated unconsciously?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130212.	4.0	82
57	Spontaneous Fluctuations and Non-linear Ignitions: Two Dynamic Faces of Cortical Recurrent Loops. Neuron, 2015, 88, 194-206.	8.1	82
58	Time-Resolved Decoding of Two Processing Chains during Dual-Task Interference. Neuron, 2015, 88, 1297-1307.	8.1	75
59	Assessing the depth of language processing in patients with disorders of consciousness. Nature Neuroscience, 2020, 23, 761-770.	14.8	74
60	Brain signatures of a multiscale process of sequence learning in humans. ELife, 2019, 8, .	6.0	74
61	Geometry of sequence working memory in macaque prefrontal cortex. Science, 2022, 375, 632-639.	12.6	74
62	Decoding the Dynamics of Action, Intention, and Error Detection for Conscious and Subliminal Stimuli. Journal of Neuroscience, 2014, 34, 1158-1170.	3.6	70
63	Unconsciously deciphering handwriting: Subliminal invariance for handwritten words in the visual word form area. NeuroImage, 2010, 49, 1786-1799.	4.2	65
64	A model of subjective report and objective discrimination as categorical decisions in a vast representational space. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130204.	4.0	65
65	Opportunities and challenges for a maturing science of consciousness. Nature Human Behaviour, 2019, 3, 104-107.	12.0	58
66	Production of Supra-regular Spatial Sequences by Macaque Monkeys. Current Biology, 2018, 28, 1851-1859.e4.	3.9	55
67	The cognitive architecture for chaining of two mental operations. Cognition, 2009, 111, 187-211.	2.2	54
68	A mesial-to-lateral dissociation for orthographic processing in the visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21936-21946.	7.1	52
69	How Awareness Changes the Relative Weights of Evidence During Human Decision-Making. PLoS Biology, 2011, 9, e1001203.	5.6	51
70	The language of geometry: Fast comprehension of geometrical primitives and rules in human adults and preschoolers. PLoS Computational Biology, 2017, 13, e1005273.	3.2	51
71	Probing the limits of activity-silent non-conscious working memory. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14358-14367.	7.1	50
72	Cerebral responses to local and global auditory novelty under general anesthesia. NeuroImage, 2016, 141, 326-340.	4.2	48

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73	Deep brain stimulation of the thalamus restores signatures of consciousness in a nonhuman primate model. Science Advances, 2022, 8, eabl5547.	10.3	47
74	Cerebral bases of subliminal speech priming. NeuroImage, 2010, 49, 922-929.	4.2	39
75	Subliminal Number Priming Within and Across the Visual and Auditory Modalities. Experimental Psychology, 2009, 56, 418-433.	0.7	35
76	Track It to Crack It: Dissecting Processing Stages with Finger Tracking. Trends in Cognitive Sciences, 2019, 23, 1058-1070.	7.8	33
77	The Error-Related Negativity, Self-Monitoring, and Consciousness. Perspectives on Psychological Science, 2018, 13, 161-165.	9.0	32
78	Dynamics of Prefrontal and Cingulate Activity during a Reward-Based Logical Deduction Task. Cerebral Cortex, 2006, 17, 749-759.	2.9	29
79	Representation of spatial sequences using nested rules in human prefrontal cortex. NeuroImage, 2019, 186, 245-255.	4.2	28
80	A theory of memory for binary sequences: Evidence for a mental compression algorithm in humans. PLoS Computational Biology, 2021, 17, e1008598.	3.2	27
81	Mental compression of spatial sequences in human working memory using numerical and geometrical primitives. Neuron, 2021, 109, 2627-2639.e4.	8.1	25
82	Disruption of Conscious Access in Psychosis Is Associated with Altered Structural Brain Connectivity. Journal of Neuroscience, 2021, 41, 513-523.	3.6	22
83	Brain correlates of constituent structure in sign language comprehension. NeuroImage, 2018, 167, 151-161.	4.2	18
84	Neural capacity limits during unconscious semantic processing. European Journal of Neuroscience, 2018, 47, 929-937.	2.6	17
85	Decoding rapidly presented visual stimuli from prefrontal ensembles without report nor post-perceptual processing. Neuroscience of Consciousness, 2022, 2022, niac005.	2.6	17
86	How does inattention affect written and spoken language processing?. Cortex, 2021, 138, 212-227.	2.4	16
87	Response. Science, 2018, 359, 400-402.	12.6	13
88	Bayesian validation of grammar productions for the language of thought. PLoS ONE, 2018, 13, e0200420.	2.5	12
89	Rational arbitration between statistics and rules in human sequence processing. Nature Human Behaviour, 2022, 6, 1087-1103.	12.0	7
90	Cerebral representation of sequence patterns across multiple presentation formats. Cortex, 2021, 145, 13-36.	2.4	6

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91	Working Memory for Spatial Sequences: Developmental and Evolutionary Factors in Encoding Ordinal and Relational Structures. Journal of Neuroscience, 2022, 42, 850-864.	3.6	6
92	Hierarchical architecture of conscious processing and subjective experience. Cognitive Neuropsychology, 2020, 37, 180-183.	1.1	5
93	Automatic Construction of a Phonics Curriculum for Reading Education Using the Transformer Neural Network. Lecture Notes in Computer Science, 2019, , 226-231.	1.3	4
94	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. SSRN Electronic Journal, 0, , .	0.4	2