

Stanislas Dehaene

List of Publications by Year in descending order

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94
papers

27,895
citations

23544

58
h-index

39638

94
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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. <i>Cognition</i> , 2001, 79, 1-37.	1.1	1,941
2	Experimental and Theoretical Approaches to Conscious Processing. <i>Neuron</i> , 2011, 70, 200-227.	3.8	1,768
3	The visual word form area. <i>Brain</i> , 2000, 123, 291-307.	3.7	1,744
4	Cerebral mechanisms of word masking and unconscious repetition priming. <i>Nature Neuroscience</i> , 2001, 4, 752-758.	7.1	1,191
5	Imaging unconscious semantic priming. <i>Nature</i> , 1998, 395, 597-600.	13.7	1,100
6	Language-specific tuning of visual cortex? Functional properties of the Visual Word Form Area. <i>Brain</i> , 2002, 125, 1054-1069.	3.7	1,085
7	The unique role of the visual word form area in reading. <i>Trends in Cognitive Sciences</i> , 2011, 15, 254-262.	4.0	1,039
8	How Learning to Read Changes the Cortical Networks for Vision and Language. <i>Science</i> , 2010, 330, 1359-1364.	6.0	1,030
9	A neuronal model of a global workspace in effortful cognitive tasks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 14529-14534.	3.3	1,013
10	The neural code for written words: a proposal. <i>Trends in Cognitive Sciences</i> , 2005, 9, 335-341.	4.0	918
11	Timing of the brain events underlying access to consciousness during the attentional blink. <i>Nature Neuroscience</i> , 2005, 8, 1391-1400.	7.1	777
12	A neuronal network model linking subjective reports and objective physiological data during conscious perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8520-8525.	3.3	735
13	The Cortical Representation of Speech. <i>Journal of Cognitive Neuroscience</i> , 1993, 5, 467-479.	1.1	725
14	Hierarchical Coding of Letter Strings in the Ventral Stream: Dissecting the Inner Organization of the Visual Word-Form System. <i>Neuron</i> , 2007, 55, 143-156.	3.8	612
15	Levels of processing during non-conscious perception: a critical review of visual masking. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 857-875.	1.8	585
16	Brain Dynamics Underlying the Nonlinear Threshold for Access to Consciousness. <i>PLoS Biology</i> , 2007, 5, e260.	2.6	583
17	Signature of consciousness in the dynamics of resting-state brain activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 887-892.	3.3	558
18	Neural signature of the conscious processing of auditory regularities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1672-1677.	3.3	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.	3.3	515
20	Illiterate to literate: behavioural and cerebral changes induced by reading acquisition. Nature Reviews Neuroscience, 2015, 16, 234-244.	4.9	502
21	Conscious Processing and the Global Neuronal Workspace Hypothesis. Neuron, 2020, 105, 776-798.	3.8	487
22	A Neuronal Model of Predictive Coding Accounting for the Mismatch Negativity. Journal of Neuroscience, 2012, 32, 3665-3678.	1.7	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.	3.3	419
24	Unconscious Masked Priming Depends on Temporal Attention. Psychological Science, 2002, 13, 416-424.	1.8	417
25	Large scale screening of neural signatures of consciousness in patients in a vegetative or minimally conscious state. Brain, 2014, 137, 2258-2270.	3.7	398
26	What is consciousness, and could machines have it?. Science, 2017, 358, 486-492.	6.0	370
27	The Neural Representation of Sequences: From Transition Probabilities to Algebraic Patterns and Linguistic Trees. Neuron, 2015, 88, 2-19.	3.8	345
28	Is Consciousness a Gradual Phenomenon?: Evidence for an All-or-None Bifurcation During the Attentional Blink. Psychological Science, 2004, 15, 720-728.	1.8	303
29	Human consciousness is supported by dynamic complex patterns of brain signal coordination. Science Advances, 2019, 5, eaat7603.	4.7	296
30	The threshold for conscious report: Signal loss and response bias in visual and frontal cortex. Science, 2018, 360, 537-542.	6.0	264
31	Reading normal and degraded words: Contribution of the dorsal and ventral visual pathways. NeuroImage, 2008, 40, 353-366.	2.1	254
32	Ongoing Spontaneous Activity Controls Access to Consciousness: A Neuronal Model for Inattentive Blindness. PLoS Biology, 2005, 3, e141.	2.6	250
33	Robust EEG-based cross-site and cross-protocol classification of states of consciousness. Brain, 2018, 141, 3179-3192.	3.7	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.	3.3	203
35	Anatomical Connections of the Visual Word Form Area. Journal of Neuroscience, 2014, 34, 15402-15414.	1.7	181
36	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. Trends in Cognitive Sciences, 2015, 19, 374-382.	4.0	180

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37	Disruption of hierarchical predictive coding during sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1353-62.	3.3	172
38	Brain Mechanisms Underlying the Brief Maintenance of Seen and Unseen Sensory Information. <i>Neuron</i> , 2016, 92, 1122-1134.	3.8	164
39	Distinct brain mechanisms for conscious versus subliminal error detection. <i>NeuroImage</i> , 2013, 73, 80-94.	2.1	156
40	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. <i>Neuron</i> , 2018, 100, 1252-1266.e3.	3.8	156
41	Probing consciousness with event-related potentials in the vegetative state. <i>Neurology</i> , 2011, 77, 264-268.	1.5	155
42	Cortical networks for vision and language in dyslexic and normal children of variable socio-economic status. <i>NeuroImage</i> , 2012, 61, 258-274.	2.1	144
43	A Neural Marker of Perceptual Consciousness in Infants. <i>Science</i> , 2013, 340, 376-380.	6.0	141
44	Representation of Numerical and Sequential Patterns in Macaque and Human Brains. <i>Current Biology</i> , 2015, 25, 1966-1974.	1.8	132
45	The Sense of Confidence during Probabilistic Learning: A Normative Account. <i>PLoS Computational Biology</i> , 2015, 11, e1004305.	1.5	119
46	Cortical activity is more stable when sensory stimuli are consciously perceived. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2083-92.	3.3	118
47	Fast reproducible identification and large-scale databasing of individual functional cognitive networks. <i>BMC Neuroscience</i> , 2007, 8, 91.	0.8	112
48	Human Inferences about Sequences: A Minimal Transition Probability Model. <i>PLoS Computational Biology</i> , 2016, 12, e1005260.	1.5	108
49	A number-form area in the blind. <i>Nature Communications</i> , 2015, 6, 6026.	5.8	103
50	A theory of working memory without consciousness or sustained activity. <i>ELife</i> , 2017, 6, .	2.8	100
51	A shared cortical bottleneck underlying Attentional Blink and Psychological Refractory Period. <i>NeuroImage</i> , 2012, 59, 2883-2898.	2.1	90
52	A Hierarchy of Responses to Auditory Regularities in the Macaque Brain. <i>Journal of Neuroscience</i> , 2014, 34, 1127-1132.	1.7	89
53	Resting-state Dynamics as a Cortical Signature of Anesthesia in Monkeys. <i>Anesthesiology</i> , 2018, 129, 942-958.	1.3	87
54	Brain networks for confidence weighting and hierarchical inference during probabilistic learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3859-E3868.	3.3	86

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55	A hierarchy of cortical responses to sequence violations in three-month-old infants. <i>Cognition</i> , 2014, 132, 137-150.	1.1	84
56	Can the meaning of multiple words be integrated unconsciously?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130212.	1.8	82
57	Spontaneous Fluctuations and Non-linear Ignitions: Two Dynamic Faces of Cortical Recurrent Loops. <i>Neuron</i> , 2015, 88, 194-206.	3.8	82
58	Time-Resolved Decoding of Two Processing Chains during Dual-Task Interference. <i>Neuron</i> , 2015, 88, 1297-1307.	3.8	75
59	Assessing the depth of language processing in patients with disorders of consciousness. <i>Nature Neuroscience</i> , 2020, 23, 761-770.	7.1	74
60	Brain signatures of a multiscale process of sequence learning in humans. <i>ELife</i> , 2019, 8, .	2.8	74
61	Geometry of sequence working memory in macaque prefrontal cortex. <i>Science</i> , 2022, 375, 632-639.	6.0	74
62	Decoding the Dynamics of Action, Intention, and Error Detection for Conscious and Subliminal Stimuli. <i>Journal of Neuroscience</i> , 2014, 34, 1158-1170.	1.7	70
63	Unconsciously deciphering handwriting: Subliminal invariance for handwritten words in the visual word form area. <i>NeuroImage</i> , 2010, 49, 1786-1799.	2.1	65
64	A model of subjective report and objective discrimination as categorical decisions in a vast representational space. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130204.	1.8	65
65	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , 2019, 3, 104-107.	6.2	58
66	Production of Supra-regular Spatial Sequences by Macaque Monkeys. <i>Current Biology</i> , 2018, 28, 1851-1859.e4.	1.8	55
67	The cognitive architecture for chaining of two mental operations. <i>Cognition</i> , 2009, 111, 187-211.	1.1	54
68	A mesial-to-lateral dissociation for orthographic processing in the visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21936-21946.	3.3	52
69	How Awareness Changes the Relative Weights of Evidence During Human Decision-Making. <i>PLoS Biology</i> , 2011, 9, e1001203.	2.6	51
70	The language of geometry: Fast comprehension of geometrical primitives and rules in human adults and preschoolers. <i>PLoS Computational Biology</i> , 2017, 13, e1005273.	1.5	51
71	Probing the limits of activity-silent non-conscious working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14358-14367.	3.3	50
72	Cerebral responses to local and global auditory novelty under general anesthesia. <i>NeuroImage</i> , 2016, 141, 326-340.	2.1	48

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73	Deep brain stimulation of the thalamus restores signatures of consciousness in a nonhuman primate model. <i>Science Advances</i> , 2022, 8, eabl5547.	4.7	47
74	Cerebral bases of subliminal speech priming. <i>NeuroImage</i> , 2010, 49, 922-929.	2.1	39
75	Subliminal Number Priming Within and Across the Visual and Auditory Modalities. <i>Experimental Psychology</i> , 2009, 56, 418-433.	0.3	35
76	Track It to Crack It: Dissecting Processing Stages with Finger Tracking. <i>Trends in Cognitive Sciences</i> , 2019, 23, 1058-1070.	4.0	33
77	The Error-Related Negativity, Self-Monitoring, and Consciousness. <i>Perspectives on Psychological Science</i> , 2018, 13, 161-165.	5.2	32
78	Dynamics of Prefrontal and Cingulate Activity during a Reward-Based Logical Deduction Task. <i>Cerebral Cortex</i> , 2006, 17, 749-759.	1.6	29
79	Representation of spatial sequences using nested rules in human prefrontal cortex. <i>NeuroImage</i> , 2019, 186, 245-255.	2.1	28
80	A theory of memory for binary sequences: Evidence for a mental compression algorithm in humans. <i>PLoS Computational Biology</i> , 2021, 17, e1008598.	1.5	27
81	Mental compression of spatial sequences in human working memory using numerical and geometrical primitives. <i>Neuron</i> , 2021, 109, 2627-2639.e4.	3.8	25
82	Disruption of Conscious Access in Psychosis Is Associated with Altered Structural Brain Connectivity. <i>Journal of Neuroscience</i> , 2021, 41, 513-523.	1.7	22
83	Brain correlates of constituent structure in sign language comprehension. <i>NeuroImage</i> , 2018, 167, 151-161.	2.1	18
84	Neural capacity limits during unconscious semantic processing. <i>European Journal of Neuroscience</i> , 2018, 47, 929-937.	1.2	17
85	Decoding rapidly presented visual stimuli from prefrontal ensembles without report nor post-perceptual processing. <i>Neuroscience of Consciousness</i> , 2022, 2022, niac005.	1.4	17
86	How does inattention affect written and spoken language processing?. <i>Cortex</i> , 2021, 138, 212-227.	1.1	16
87	Response. <i>Science</i> , 2018, 359, 400-402.	6.0	13
88	Bayesian validation of grammar productions for the language of thought. <i>PLoS ONE</i> , 2018, 13, e0200420.	1.1	12
89	Rational arbitration between statistics and rules in human sequence processing. <i>Nature Human Behaviour</i> , 2022, 6, 1087-1103.	6.2	7
90	Cerebral representation of sequence patterns across multiple presentation formats. <i>Cortex</i> , 2021, 145, 13-36.	1.1	6

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91	Working Memory for Spatial Sequences: Developmental and Evolutionary Factors in Encoding Ordinal and Relational Structures. <i>Journal of Neuroscience</i> , 2022, 42, 850-864.	1.7	6
92	Hierarchical architecture of conscious processing and subjective experience. <i>Cognitive Neuropsychology</i> , 2020, 37, 180-183.	0.4	5
93	Automatic Construction of a Phonics Curriculum for Reading Education Using the Transformer Neural Network. <i>Lecture Notes in Computer Science</i> , 2019, , 226-231.	1.0	4
94	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2