

Stanislas Dehaene

List of Publications by Citations

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97
papers

21,065
citations

55
h-index

105
g-index

105
ext. papers

25,002
ext. citations

11
avg, IF

7.17
L-index

#	Paper	IF	Citations
97	Towards a cognitive neuroscience of consciousness: basic evidence and a workspace framework. <i>Cognition</i> , 2001 , 79, 1-37	3.5	1552
96	The visual word form area: spatial and temporal characterization of an initial stage of reading in normal subjects and posterior split-brain patients. <i>Brain</i> , 2000 , 123 (Pt 2), 291-307	11.2	1478
95	Experimental and theoretical approaches to conscious processing. <i>Neuron</i> , 2011 , 70, 200-27	13.9	1328
94	Cerebral mechanisms of word masking and unconscious repetition priming. <i>Nature Neuroscience</i> , 2001 , 4, 752-8	25.5	1031
93	Imaging unconscious semantic priming. <i>Nature</i> , 1998 , 395, 597-600	50.4	970
92	Language-specific tuning of visual cortex? Functional properties of the Visual Word Form Area. <i>Brain</i> , 2002 , 125, 1054-69	11.2	933
91	How learning to read changes the cortical networks for vision and language. <i>Science</i> , 2010 , 330, 1359-64	33.3	818
90	The unique role of the visual word form area in reading. <i>Trends in Cognitive Sciences</i> , 2011 , 15, 254-62	14	803
89	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, 14529-34	11.5	783
88	The neural code for written words: a proposal. <i>Trends in Cognitive Sciences</i> , 2005 , 9, 335-41	14	743
87	Timing of the brain events underlying access to consciousness during the attentional blink. <i>Nature Neuroscience</i> , 2005 , 8, 1391-400	25.5	653
86	The cortical representation of speech. <i>Journal of Cognitive Neuroscience</i> , 1993 , 5, 467-79	3.1	642
85	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, 8520-5	11.5	575
84	Hierarchical coding of letter strings in the ventral stream: dissecting the inner organization of the visual word-form system. <i>Neuron</i> , 2007 , 55, 143-56	13.9	500
83	Brain dynamics underlying the nonlinear threshold for access to consciousness. <i>PLoS Biology</i> , 2007 , 5, e260	9.7	464
82	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, 857-75	5.8	454
81	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, 1672-7	11.5	390

80	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, 887-92	11.5	378
79	Unconscious masked priming depends on temporal attention. <i>Psychological Science</i> , 2002 , 13, 416-24	7.9	369
78	Illiterate to literate: behavioural and cerebral changes induced by reading acquisition. <i>Nature Reviews Neuroscience</i> , 2015 , 16, 234-44	13.5	363
77	Cortical representation of the constituent structure of sentences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2522-7	11.5	358
76	A neuronal model of predictive coding accounting for the mismatch negativity. <i>Journal of Neuroscience</i> , 2012 , 32, 3665-78	6.6	355
75	Evidence for a hierarchy of predictions and prediction errors in human cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20754-9	11.5	289
74	Large scale screening of neural signatures of consciousness in patients in a vegetative or minimally conscious state. <i>Brain</i> , 2014 , 137, 2258-70	11.2	263
73	Is consciousness a gradual phenomenon? Evidence for an all-or-none bifurcation during the attentional blink. <i>Psychological Science</i> , 2004 , 15, 720-8	7.9	257
72	What is consciousness, and could machines have it?. <i>Science</i> , 2017 , 358, 486-492	33.3	240
71	The Neural Representation of Sequences: From Transition Probabilities to Algebraic Patterns and Linguistic Trees. <i>Neuron</i> , 2015 , 88, 2-19	13.9	220
70	Reading normal and degraded words: contribution of the dorsal and ventral visual pathways. <i>NeuroImage</i> , 2008 , 40, 353-66	7.9	215
69	Ongoing spontaneous activity controls access to consciousness: a neuronal model for inattentive blindness. <i>PLoS Biology</i> , 2005 , 3, e141	9.7	206
68	Conscious Processing and the Global Neuronal Workspace Hypothesis. <i>Neuron</i> , 2020 , 105, 776-798	13.9	193
67	The threshold for conscious report: Signal loss and response bias in visual and frontal cortex. <i>Science</i> , 2018 , 360, 537-542	33.3	157
66	Human consciousness is supported by dynamic complex patterns of brain signal coordination. <i>Science Advances</i> , 2019 , 5, eaat7603	14.3	147
65	Anatomical connections of the visual word form area. <i>Journal of Neuroscience</i> , 2014 , 34, 15402-14	6.6	135
64	Probing consciousness with event-related potentials in the vegetative state. <i>Neurology</i> , 2011 , 77, 264-8	6.5	133
63	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 374-82	14	129

62	Distinct brain mechanisms for conscious versus subliminal error detection. <i>NeuroImage</i> , 2013 , 73, 80-94	7.9	124
61	Cortical networks for vision and language in dyslexic and normal children of variable socio-economic status. <i>NeuroImage</i> , 2012 , 61, 258-74	7.9	117
60	Brain Mechanisms Underlying the Brief Maintenance of Seen and Unseen Sensory Information. <i>Neuron</i> , 2016 , 92, 1122-1134	13.9	113
59	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	11.5	111
58	Neurophysiological dynamics of phrase-structure building during sentence processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3669-E3678	11.5	110
57	A neural marker of perceptual consciousness in infants. <i>Science</i> , 2013 , 340, 376-80	33.3	106
56	Robust EEG-based cross-site and cross-protocol classification of states of consciousness. <i>Brain</i> , 2018 , 141, 3179-3192	11.2	103
55	Fast reproducible identification and large-scale databasing of individual functional cognitive networks. <i>BMC Neuroscience</i> , 2007 , 8, 91	3.2	89
54	Representation of numerical and sequential patterns in macaque and human brains. <i>Current Biology</i> , 2015 , 25, 1966-74	6.3	85
53	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	11.5	84
52	The Sense of Confidence during Probabilistic Learning: A Normative Account. <i>PLoS Computational Biology</i> , 2015 , 11, e1004305	5	76
51	A number-form area in the blind. <i>Nature Communications</i> , 2015 , 6, 6026	17.4	76
50	A shared cortical bottleneck underlying Attentional Blink and Psychological Refractory Period. <i>NeuroImage</i> , 2012 , 59, 2883-98	7.9	72
49	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. <i>Neuron</i> , 2018 , 100, 1252-1266.e3	13.9	69
48	A theory of working memory without consciousness or sustained activity. <i>ELife</i> , 2017 , 6,	8.9	64
47	A hierarchy of cortical responses to sequence violations in three-month-old infants. <i>Cognition</i> , 2014 , 132, 137-50	3.5	60
46	Spontaneous Fluctuations and Non-linear Ignitions: Two Dynamic Faces of Cortical Recurrent Loops. <i>Neuron</i> , 2015 , 88, 194-206	13.9	56
45	Can the meaning of multiple words be integrated unconsciously?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130212	5.8	56

44	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	11.5	55
43	Unconsciously deciphering handwriting: subliminal invariance for handwritten words in the visual word form area. <i>NeuroImage</i> , 2010 , 49, 1786-99	7.9	55
42	Human Inferences about Sequences: A Minimal Transition Probability Model. <i>PLoS Computational Biology</i> , 2016 , 12, e1005260	5	54
41	Decoding the dynamics of action, intention, and error detection for conscious and subliminal stimuli. <i>Journal of Neuroscience</i> , 2014 , 34, 1158-70	6.6	53
40	A hierarchy of responses to auditory regularities in the macaque brain. <i>Journal of Neuroscience</i> , 2014 , 34, 1127-32	6.6	53
39	Resting-state Dynamics as a Cortical Signature of Anesthesia in Monkeys. <i>Anesthesiology</i> , 2018 , 129, 942-958	4.3	49
38	The cognitive architecture for chaining of two mental operations. <i>Cognition</i> , 2009 , 111, 187-211	3.5	48
37	Time-Resolved Decoding of Two Processing Chains during Dual-Task Interference. <i>Neuron</i> , 2015 , 88, 1297-1307	13.9	47
36	How awareness changes the relative weights of evidence during human decision-making. <i>PLoS Biology</i> , 2011 , 9, e1001203	9.7	47
35	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	5.8	43
34	Production of Supra-regular Spatial Sequences by Macaque Monkeys. <i>Current Biology</i> , 2018 , 28, 1851-1859	3.4	36
33	Cerebral bases of subliminal speech priming. <i>NeuroImage</i> , 2010 , 49, 922-9	7.9	36
32	The language of geometry: Fast comprehension of geometrical primitives and rules in human adults and preschoolers. <i>PLoS Computational Biology</i> , 2017 , 13, e1005273	5	32
31	Brain signatures of a multiscale process of sequence learning in humans. <i>ELife</i> , 2019 , 8,	8.9	31
30	Subliminal number priming within and across the visual and auditory modalities. <i>Experimental Psychology</i> , 2009 , 56, 418-33	1.5	30
29	Cerebral responses to local and global auditory novelty under general anesthesia. <i>NeuroImage</i> , 2016 , 141, 326-340	7.9	30
28	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	11.5	28
27	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , 2019 , 3, 104-107	12.8	28

26	Dynamics of prefrontal and cingulate activity during a reward-based logical deduction task. <i>Cerebral Cortex</i> , 2007 , 17, 749-59	5.1	26
25	Assessing the depth of language processing in patients with disorders of consciousness. <i>Nature Neuroscience</i> , 2020 , 23, 761-770	25.5	26
24	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	11.5	22
23	The Error-Related Negativity, Self-Monitoring, and Consciousness. <i>Perspectives on Psychological Science</i> , 2018 , 13, 161-165	9.8	18
22	Track It to Crack It: Dissecting Processing Stages with Finger Tracking. <i>Trends in Cognitive Sciences</i> , 2019 , 23, 1058-1070	14	18
21	Neural capacity limits during unconscious semantic processing. <i>European Journal of Neuroscience</i> , 2018 , 47, 929-937	3.5	14
20	Brain correlates of constituent structure in sign language comprehension. <i>NeuroImage</i> , 2018 , 167, 151-161	16.1	14
19	Representation of spatial sequences using nested rules in human prefrontal cortex. <i>NeuroImage</i> , 2019 , 186, 245-255	7.9	13
18	Response. <i>Science</i> , 2018 , 359, 400-402	33.3	11
17	Disruption of Conscious Access in Psychosis Is Associated with Altered Structural Brain Connectivity. <i>Journal of Neuroscience</i> , 2021 , 41, 513-523	6.6	9
16	Bayesian validation of grammar productions for the language of thought. <i>PLoS ONE</i> , 2018 , 13, e0200420	3.7	7
15	Rational arbitration between statistics and rules in human sequence processing		7
14	Geometry of sequence working memory in macaque prefrontal cortex.. <i>Science</i> , 2022 , 375, 632-639	33.3	4
13	A theory of memory for binary sequences: Evidence for a mental compression algorithm in humans. <i>PLoS Computational Biology</i> , 2021 , 17, e1008598	5	4
12	How does inattention affect written and spoken language processing?. <i>Cortex</i> , 2021 , 138, 212-227	3.8	3
11	Automatic Construction of a Phonics Curriculum for Reading Education Using the Transformer Neural Network. <i>Lecture Notes in Computer Science</i> , 2019 , 226-231	0.9	2
10	Hierarchical architecture of conscious processing and subjective experience. <i>Cognitive Neuropsychology</i> , 2020 , 37, 180-183	2.3	2
9	Mental compression of spatial sequences in human working memory using numerical and geometrical primitives		2

8	Probing the limits of activity-silent non-conscious working memory		2
7	Decoding rapidly presented visual stimuli from prefrontal ensembles without report nor post-perceptual processing.. <i>Neuroscience of Consciousness</i> , 2022 , 2022, niac005	3.3	2
6	Deep brain stimulation of the thalamus restores signatures of consciousness in a nonhuman primate model.. <i>Science Advances</i> , 2022 , 8, eabl5547	14.3	2
5	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. <i>SSRN Electronic Journal</i> ,	1	1
4	Spatiotemporal Dynamics of Orthographic and Lexical Processing in the Ventral Visual Pathway		1
3	A Spatiotemporal Map of Reading Aloud		1
2	Mental compression of spatial sequences in human working memory using numerical and geometrical primitives. <i>Neuron</i> , 2021 , 109, 2627-2639.e4	13.9	1
1	Cerebral representation of sequence patterns across multiple presentation formats. <i>Cortex</i> , 2021 , 145, 13-36	3.8	0