

# Stanislas Dehaene

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Geometry of sequence working memory in macaque prefrontal cortex.. <i>Science</i> , <b>2022</b> , 375, 632-639	33.3	4
96	Decoding rapidly presented visual stimuli from prefrontal ensembles without report nor post-perceptual processing.. <i>Neuroscience of Consciousness</i> , <b>2022</b> , 2022, niac005	3.3	2
95	Deep brain stimulation of the thalamus restores signatures of consciousness in a nonhuman primate model.. <i>Science Advances</i> , <b>2022</b> , 8, eabl5547	14.3	2
94	Disruption of Conscious Access in Psychosis Is Associated with Altered Structural Brain Connectivity. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 513-523	6.6	9
93	Cerebral representation of sequence patterns across multiple presentation formats. <i>Cortex</i> , <b>2021</b> , 145, 13-36	3.8	0
92	How does inattention affect written and spoken language processing?. <i>Cortex</i> , <b>2021</b> , 138, 212-227	3.8	3
91	A theory of memory for binary sequences: Evidence for a mental compression algorithm in humans. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008598	5	4
90	Mental compression of spatial sequences in human working memory using numerical and geometrical primitives. <i>Neuron</i> , <b>2021</b> , 109, 2627-2639.e4	13.9	1
89	Hierarchical architecture of conscious processing and subjective experience. <i>Cognitive Neuropsychology</i> , <b>2020</b> , 37, 180-183	2.3	2
88	Conscious Processing and the Global Neuronal Workspace Hypothesis. <i>Neuron</i> , <b>2020</b> , 105, 776-798	13.9	193
87	Assessing the depth of language processing in patients with disorders of consciousness. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 761-770	25.5	26
86	Automatic Construction of a Phonics Curriculum for Reading Education Using the Transformer Neural Network. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 226-231	0.9	2
85	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> , <b>2019</b> , 116, 14358-14367	11.5	28
84	Human consciousness is supported by dynamic complex patterns of brain signal coordination. <i>Science Advances</i> , <b>2019</b> , 5, eaat7603	14.3	147
83	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> , <b>2019</b> , 116, 21936-21946	11.5	22
82	Track It to Crack It: Dissecting Processing Stages with Finger Tracking. <i>Trends in Cognitive Sciences</i> , <b>2019</b> , 23, 1058-1070	14	18
81	Brain signatures of a multiscale process of sequence learning in humans. <i>ELife</i> , <b>2019</b> , 8,	8.9	31

80	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , <b>2019</b> , 3, 104-107	12.8	28	
79	Representation of spatial sequences using nested rules in human prefrontal cortex. <i>NeuroImage</i> , <b>2019</b> , 186, 245-255	7.9	13	
78	Response. <i>Science</i> , <b>2018</b> , 359, 400-402	33.3	11	
77	The Error-Related Negativity, Self-Monitoring, and Consciousness. <i>Perspectives on Psychological Science</i> , <b>2018</b> , 13, 161-165	9.8	18	
76	The threshold for conscious report: Signal loss and response bias in visual and frontal cortex. <i>Science</i> , <b>2018</b> , 360, 537-542	33.3	157	
75	Neural capacity limits during unconscious semantic processing. <i>European Journal of Neuroscience</i> , <b>2018</b> , 47, 929-937	3.5	14	
74	Bayesian validation of grammar productions for the language of thought. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200420	3.7	7	
73	Production of Supra-regular Spatial Sequences by Macaque Monkeys. <i>Current Biology</i> , <b>2018</b> , 28, 1851-1859	e4	36	
72	Brain correlates of constituent structure in sign language comprehension. <i>NeuroImage</i> , <b>2018</b> , 167, 151-161	11.1	14	
71	Resting-state Dynamics as a Cortical Signature of Anesthesia in Monkeys. <i>Anesthesiology</i> , <b>2018</b> , 129, 942-958	4.3	49	
70	Robust EEG-based cross-site and cross-protocol classification of states of consciousness. <i>Brain</i> , <b>2018</b> , 141, 3179-3192	11.2	103	
69	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. <i>Neuron</i> , <b>2018</b> , 100, 1252-1266	e3	13.9	69
68	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> , <b>2017</b> , 114, E3859-E3868	11.5	55	
67	Neurophysiological dynamics of phrase-structure building during sentence processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E3669-E3678	11.5	110	
66	What is consciousness, and could machines have it?. <i>Science</i> , <b>2017</b> , 358, 486-492	33.3	240	
65	A theory of working memory without consciousness or sustained activity. <i>ELife</i> , <b>2017</b> , 6,	8.9	64	
64	The language of geometry: Fast comprehension of geometrical primitives and rules in human adults and preschoolers. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005273	5	32	
63	Human Inferences about Sequences: A Minimal Transition Probability Model. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1005260	5	54	

62	Brain Mechanisms Underlying the Brief Maintenance of Seen and Unseen Sensory Information. <i>Neuron</i> , <b>2016</b> , 92, 1122-1134	13.9	113
61	Cerebral responses to local and global auditory novelty under general anesthesia. <i>NeuroImage</i> , <b>2016</b> , 141, 326-340	7.9	30
60	Disruption of hierarchical predictive coding during sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1353-62	11.5	111
59	Representation of numerical and sequential patterns in macaque and human brains. <i>Current Biology</i> , <b>2015</b> , 25, 1966-74	6.3	85
58	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. <i>Trends in Cognitive Sciences</i> , <b>2015</b> , 19, 374-82	14	129
57	Illiterate to literate: behavioural and cerebral changes induced by reading acquisition. <i>Nature Reviews Neuroscience</i> , <b>2015</b> , 16, 234-44	13.5	363
56	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> , <b>2015</b> , 112, E2083-92	11.5	84
55	Spontaneous Fluctuations and Non-linear Ignitions: Two Dynamic Faces of Cortical Recurrent Loops. <i>Neuron</i> , <b>2015</b> , 88, 194-206	13.9	56
54	The Neural Representation of Sequences: From Transition Probabilities to Algebraic Patterns and Linguistic Trees. <i>Neuron</i> , <b>2015</b> , 88, 2-19	13.9	220
53	Time-Resolved Decoding of Two Processing Chains during Dual-Task Interference. <i>Neuron</i> , <b>2015</b> , 88, 1297-1307	13.9	47
52	The Sense of Confidence during Probabilistic Learning: A Normative Account. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004305	5	76
51	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> , <b>2015</b> , 112, 887-92	11.5	378
50	A number-form area in the blind. <i>Nature Communications</i> , <b>2015</b> , 6, 6026	17.4	76
49	Anatomical connections of the visual word form area. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 15402-14	6.6	135
48	Can the meaning of multiple words be integrated unconsciously?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369, 20130212	5.8	56
47	Large scale screening of neural signatures of consciousness in patients in a vegetative or minimally conscious state. <i>Brain</i> , <b>2014</b> , 137, 2258-70	11.2	263
46	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> , <b>2014</b> , 369, 20130204	5.8	43
45	A hierarchy of cortical responses to sequence violations in three-month-old infants. <i>Cognition</i> , <b>2014</b> , 132, 137-50	3.5	60

44	Decoding the dynamics of action, intention, and error detection for conscious and subliminal stimuli. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 1158-70	6.6	53
43	A hierarchy of responses to auditory regularities in the macaque brain. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 1127-32	6.6	53
42	Distinct brain mechanisms for conscious versus subliminal error detection. <i>NeuroImage</i> , <b>2013</b> , 73, 80-94	7.9	124
41	A neural marker of perceptual consciousness in infants. <i>Science</i> , <b>2013</b> , 340, 376-80	33.3	106
40	A shared cortical bottleneck underlying Attentional Blink and Psychological Refractory Period. <i>NeuroImage</i> , <b>2012</b> , 59, 2883-98	7.9	72
39	Cortical networks for vision and language in dyslexic and normal children of variable socio-economic status. <i>NeuroImage</i> , <b>2012</b> , 61, 258-74	7.9	117
38	A neuronal model of predictive coding accounting for the mismatch negativity. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 3665-78	6.6	355
37	The unique role of the visual word form area in reading. <i>Trends in Cognitive Sciences</i> , <b>2011</b> , 15, 254-62	14	803
36	Experimental and theoretical approaches to conscious processing. <i>Neuron</i> , <b>2011</b> , 70, 200-27	13.9	1328
35	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> , <b>2011</b> , 108, 20754-9	11.5	289
34	Cortical representation of the constituent structure of sentences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 2522-7	11.5	358
33	Probing consciousness with event-related potentials in the vegetative state. <i>Neurology</i> , <b>2011</b> , 77, 264-8	6.5	133
32	How awareness changes the relative weights of evidence during human decision-making. <i>PLoS Biology</i> , <b>2011</b> , 9, e1001203	9.7	47
31	How learning to read changes the cortical networks for vision and language. <i>Science</i> , <b>2010</b> , 330, 1359-64	33.3	818
30	Cerebral bases of subliminal speech priming. <i>NeuroImage</i> , <b>2010</b> , 49, 922-9	7.9	36
29	Unconsciously deciphering handwriting: subliminal invariance for handwritten words in the visual word form area. <i>NeuroImage</i> , <b>2010</b> , 49, 1786-99	7.9	55
28	Subliminal number priming within and across the visual and auditory modalities. <i>Experimental Psychology</i> , <b>2009</b> , 56, 418-33	1.5	30
27	Neural signature of the conscious processing of auditory regularities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1672-7	11.5	390

26	The cognitive architecture for chaining of two mental operations. <i>Cognition</i> , <b>2009</b> , 111, 187-211	3.5	48
25	Reading normal and degraded words: contribution of the dorsal and ventral visual pathways. <i>NeuroImage</i> , <b>2008</b> , 40, 353-66	7.9	215
24	Fast reproducible identification and large-scale databasing of individual functional cognitive networks. <i>BMC Neuroscience</i> , <b>2007</b> , 8, 91	3.2	89
23	Dynamics of prefrontal and cingulate activity during a reward-based logical deduction task. <i>Cerebral Cortex</i> , <b>2007</b> , 17, 749-59	5.1	26
22	Brain dynamics underlying the nonlinear threshold for access to consciousness. <i>PLoS Biology</i> , <b>2007</b> , 5, e260	9.7	464
21	Hierarchical coding of letter strings in the ventral stream: dissecting the inner organization of the visual word-form system. <i>Neuron</i> , <b>2007</b> , 55, 143-56	13.9	500
20	Levels of processing during non-conscious perception: a critical review of visual masking. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2007</b> , 362, 857-75	5.8	454
19	The neural code for written words: a proposal. <i>Trends in Cognitive Sciences</i> , <b>2005</b> , 9, 335-41	14	743
18	Ongoing spontaneous activity controls access to consciousness: a neuronal model for inattentive blindness. <i>PLoS Biology</i> , <b>2005</b> , 3, e141	9.7	206
17	Timing of the brain events underlying access to consciousness during the attentional blink. <i>Nature Neuroscience</i> , <b>2005</b> , 8, 1391-400	25.5	653
16	Is consciousness a gradual phenomenon? Evidence for an all-or-none bifurcation during the attentional blink. <i>Psychological Science</i> , <b>2004</b> , 15, 720-8	7.9	257
15	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> , <b>2003</b> , 100, 8520-5	11.5	575
14	Unconscious masked priming depends on temporal attention. <i>Psychological Science</i> , <b>2002</b> , 13, 416-24	7.9	369
13	Language-specific tuning of visual cortex? Functional properties of the Visual Word Form Area. <i>Brain</i> , <b>2002</b> , 125, 1054-69	11.2	933
12	Cerebral mechanisms of word masking and unconscious repetition priming. <i>Nature Neuroscience</i> , <b>2001</b> , 4, 752-8	25.5	1031
11	Towards a cognitive neuroscience of consciousness: basic evidence and a workspace framework. <i>Cognition</i> , <b>2001</b> , 79, 1-37	3.5	1552
10	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> , <b>2000</b> , 123 ( Pt 2), 291-307	11.2	1478
9	Imaging unconscious semantic priming. <i>Nature</i> , <b>1998</b> , 395, 597-600	50.4	970

8	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> , <b>1998</b> , 95, 14529-34	11.5	783
7	The cortical representation of speech. <i>Journal of Cognitive Neuroscience</i> , <b>1993</b> , 5, 467-79	3.1	642
6	Large-Scale Cortical Networks for Hierarchical Prediction and Prediction Error in the Primate Brain. <i>SSRN Electronic Journal</i> ,	1	1
5	Mental compression of spatial sequences in human working memory using numerical and geometrical primitives		2
4	Rational arbitration between statistics and rules in human sequence processing		7
3	Spatiotemporal Dynamics of Orthographic and Lexical Processing in the Ventral Visual Pathway		1
2	Probing the limits of activity-silent non-conscious working memory		2
1	A Spatiotemporal Map of Reading Aloud		1