Lionel Naccache

List of Publications by Year
in descending order

153 papers	17,728 citations	36271 51 h-index	15249 126 g-index
180 all docs	180 docs citations	180 times ranked	10813 citing authors

#	Article	IF	Citations
1	Towards a cognitive neuroscience of consciousness: basic evidence and a workspace framework. Cognition, 2001, 79, 1-37.	1.1	1,941
2	The visual word form area. Brain, 2000, 123, 291-307.	3.7	1,744
3	Conscious, preconscious, and subliminal processing: a testable taxonomy. Trends in Cognitive Sciences, 2006, 10, 204-211.	4.0	1,649
4	Cerebral mechanisms of word masking and unconscious repetition priming. Nature Neuroscience, 2001, 4, 752-758.	7.1	1,191
5	Imaging unconscious semantic priming. Nature, 1998, 395, 597-600.	13.7	1,100
6	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.	3.3	539
7	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
8	Unconscious Masked Priming Depends on Temporal Attention. Psychological Science, 2002, 13, 416-424.	1.8	417
9	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
10	The Priming Method: Imaging Unconscious Repetition Priming Reveals an Abstract Representation of Number in the Parietal Lobes. Cerebral Cortex, 2001, 11, 966-974.	1.6	369
11	Direct Intracranial, fMRI, and Lesion Evidence for the Causal Role of Left Inferotemporal Cortex in Reading. Neuron, 2006, 50, 191-204.	3.8	337
12	Unconscious semantic priming extends to novel unseen stimuli. Cognition, 2001, 80, 215-229.	1.1	332
13	European Academy of Neurology guideline on the diagnosis of coma and other disorders of consciousness. European Journal of Neurology, 2020, 27, 741-756.	1.7	331
14	Converging Intracranial Markers of Conscious Access. PLoS Biology, 2009, 7, e1000061.	2.6	326
15	Human consciousness is supported by dynamic complex patterns of brain signal coordination. Science Advances, 2019, 5, eaat7603.	4.7	296
16	Information Sharing in the Brain Indexes Consciousness in Noncommunicative Patients. Current Biology, 2013, 23, 1914-1919.	1.8	257
17	Language and calculation within the parietal lobe: a combined cognitive, anatomical and fMRI study. Neuropsychologia, 2000, 38, 1426-1440.	0.7	218
18	Robust EEG-based cross-site and cross-protocol classification of states of consciousness. Brain, 2018, 141, 3179-3192.	3.7	213

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19	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
20	Impaired consciousness during temporal lobe seizures is related to increased long-distance corticalâ€“subcortical synchronization. Brain, 2009, 132, 2091-2101.	3.7	201
21	Conscious and subliminal conflicts in normal subjects and patients with schizophrenia: The role of the anterior cingulate. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13722-13727.	3.3	191
22	Event-related fMRI analysis of the cerebral circuit for number comparison. NeuroReport, 1999, 10, 1473-1479.	0.6	180
23	A direct intracranial record of emotions evoked by subliminal words. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7713-7717.	3.3	173
24	Disruption of hierarchical predictive coding during sleep. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1353-62.	3.3	172
25	Effortless control: executive attention and conscious feeling of mental effort are dissociable. Neuropsychologia, 2005, 43, 1318-1328.	0.7	158
26	Probing consciousness with event-related potentials in the vegetative state. Neurology, 2011, 77, 264-268.	1.5	155
27	Event related potentials elicited by violations of auditory regularities in patients with impaired consciousness. Neuropsychologia, 2012, 50, 403-418.	0.7	150
28	Nonconscious semantic processing of emotional words modulates conscious access. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7524-7529.	3.3	149
29	Single-trial decoding of auditory novelty responses facilitates the detection of residual consciousness. NeuroImage, 2013, 83, 726-738.	2.1	146
30	EEG evidence of compensatory mechanisms in preclinical Alzheimerâ€™s disease. Brain, 2019, 142, 2096-2112.	3.7	131
31	COVIDâ€19â€related encephalopathy: a case series with brain FDGâ€positronâ€emission tomography/computed tomography findings. European Journal of Neurology, 2020, 27, 2651-2657.	1.7	127
32	Long-term semantic memory versus contextual memory in unconscious number processing.. Journal of Experimental Psychology: Learning Memory and Cognition, 2003, 29, 235-247.	0.7	126
33	Use of brain diffusion tensor imaging for the prediction of long-term neurological outcomes in patients after cardiac arrest: a multicentre, international, prospective, observational, cohort study. Lancet Neurology, The, 2018, 17, 317-326.	4.9	126
34	Minimally conscious state or cortically mediated state?. Brain, 2018, 141, 949-960.	3.7	120
35	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.	3.3	118
36	Cueing Attention after the Stimulus Is Gone Can Retrospectively Trigger Conscious Perception. Current Biology, 2013, 23, 150-155.	1.8	116

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37	Clinical and advanced neurophysiology in the prognostic and diagnostic evaluation of disorders of consciousness: review of an IFCN-endorsed expert group. Clinical Neurophysiology, 2020, 131, 2736-2765.	0.7	103
38	Event-Related Potential, Time-frequency, and Functional Connectivity Facets of Local and Global Auditory Novelty Processing: An Intracranial Study in Humans. Cerebral Cortex, 2015, 25, 4203-4212.	1.6	90
39	Bedside quantitative electroencephalography improves assessment of consciousness in comatose subarachnoid hemorrhage patients. Annals of Neurology, 2016, 80, 541-553.	2.8	85
40	Probing ERP correlates of verbal semantic processing in patients with impaired consciousness. Neuropsychologia, 2015, 66, 279-292.	0.7	84
41	Can the meaning of multiple words be integrated unconsciously?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130212.	1.8	82
42	Auditory mismatch negativity is a good predictor of awakening in comatose patients: a fast and reliable procedure. Clinical Neurophysiology, 2005, 116, 988-989.	0.7	77
43	Two Distinct Dynamic Modes Subtend the Detection of Unexpected Sounds. PLoS ONE, 2014, 9, e85791.	1.1	76
44	Brainâ€“heart interactions reveal consciousness in noncommunicating patients. Annals of Neurology, 2017, 82, 578-591.	2.8	76
45	Recommendations for the use of electroencephalography and evoked potentials in comatose patients. Neurophysiologie Clinique, 2018, 48, 143-169.	1.0	74
46	Value and mechanisms of EEG reactivity in the prognosis of patients with impaired consciousness: a systematic review. Critical Care, 2018, 22, 184.	2.5	73
47	Preservation of Brain Activity in Unresponsive Patients Identifies <scp>MCS</scp> Star. Annals of Neurology, 2021, 90, 89-100.	2.8	70
48	Extensive White Matter Involvement in Patients With Frontotemporal Lobar Degeneration. JAMA Neurology, 2014, 71, 1562.	4.5	68
49	Unconsciously deciphering handwriting: Subliminal invariance for handwritten words in the visual word form area. NeuroImage, 2010, 49, 1786-1799.	2.1	65
50	Why and how access consciousness can account for phenomenal consciousness. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170357.	1.8	65
51	â€œWhatâ€•and â€œWhereâ€•in Word Reading: Ventral Coding of Written Words Revealed by Parietal Atrophy. Journal of Cognitive Neuroscience, 2006, 18, 1998-2012.	1.1	62
52	Survival and consciousness recovery are better in the minimally conscious state than in the vegetative state. Brain Injury, 2018, 32, 72-77.	0.6	61
53	Is She Conscious?. Science, 2006, 313, 1395-1396.	6.0	58
54	Opportunities and challenges for a maturing science of consciousness. Nature Human Behaviour, 2019, 3, 104-107.	6.2	58

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55	Combined behavioral and electrophysiological evidence for a direct cortical effect of prefrontal tDCS on disorders of consciousness. Scientific Reports, 2020, 10, 4323.	1.6	55
56	Multidimensional cognitive evaluation of patients with disorders of consciousness using EEG: A proof of concept study. NeuroImage: Clinical, 2017, 13, 455-469.	1.4	52
57	Conscious processing of narrative stimuli synchronizes heart rate between individuals. Cell Reports, 2021, 36, 109692.	2.9	52
58	Impact of Transcranial Magnetic Stimulation on Functional Movement Disorders: Cortical Modulation or a Behavioral Effect?. Frontiers in Neurology, 2017, 8, 338.	1.1	49
59	Cognitive control in childhood-onset obsessiveâ€“compulsive disorder: a functional MRI study. Psychological Medicine, 2005, 35, 1007-1017.	2.7	48
60	A combined clinical and MRI approach for outcome assessment of traumatic head injured comatose patients. Journal of Neurology, 2008, 255, 217-223.	1.8	48
61	Regional brain volumetry and brain function in severely brainâ€injured patients. Annals of Neurology, 2018, 83, 842-853.	2.8	43
62	The relationship of intracranial pressure Lundberg waves to electroencephalograph fluctuations in patients with severe head trauma. Acta Neurochirurgica, 2005, 147, 125-129.	0.9	41
63	Probing the lifetimes of auditory novelty detection processes. Neuropsychologia, 2010, 48, 3145-3154.	0.7	40
64	A Precision Medicine Framework for Classifying Patients with Disorders of Consciousness: Advanced Classification of Consciousness Endotypes (ACCESS). Neurocritical Care, 2021, 35, 27-36.	1.2	39
65	Imaging neural signatures of consciousness: 'what', 'when', 'where' and 'how' does it work?. Archives Italiennes De Biologie, 2012, 150, 91-106.	0.1	39
66	Association of Clinical, Biological, and Brain Magnetic Resonance Imaging Findings With Electroencephalographic Findings for Patients With COVID-19. JAMA Network Open, 2021, 4, e211489.	2.8	38
67	White matter damage impairs access to consciousness in multiple sclerosis. NeuroImage, 2009, 44, 590-599.	2.1	37
68	Conscious processing of auditory regularities induces a pupil dilation. Scientific Reports, 2018, 8, 14819.	1.6	34
69	Multimodal FDG-PET and EEG assessment improves diagnosis and prognostication of disorders of consciousness. NeuroImage: Clinical, 2021, 30, 102601.	1.4	29
70	Why the P3b is still a plausible correlate of conscious access? A commentary on Silverstein etÂal., 2015. Cortex, 2016, 85, 126-128.	1.1	28
71	Habituation of auditory startle reflex is a new sign of minimally conscious state. Brain, 2020, 143, 2154-2172.	3.7	28
72	Cognitive Dissonance Resolution Is Related to Episodic Memory. PLoS ONE, 2014, 9, e108579.	1.1	27

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73	Cortical neurons and networks are dormant but fully responsive during isoelectric brain state. Brain, 2017, 140, 2381-2398.	3.7	27
74	Brain-scale cortico-cortical functional connectivity in the delta-theta band is a robust signature of conscious states: an intracranial and scalp EEG study. Scientific Reports, 2020, 10, 14037.	1.6	27
75	Intact subliminal processing and delayed conscious access in multiple sclerosis. Neuropsychologia, 2007, 45, 2683-2691.	0.7	26
76	The Cerebral Cost of Breathing: An fMRI Case-Study in Congenital Central Hypoventilation Syndrome. PLoS ONE, 2014, 9, e107850.	1.1	26
77	The global workspace (GW) theory of consciousness and epilepsy. Behavioural Neurology, 2011, 24, 67-74.	1.1	25
78	Paracingulate sulcus morphology and fMRI activation detection in schizophrenia patients. Schizophrenia Research, 2006, 82, 143-151.	1.1	22
79	Alteration of consciousness in focal epilepsy: The global workspace alteration theory. Epilepsy and Behavior, 2014, 30, 17-23.	0.9	22
80	Semantic processing of neglected numbers. Cortex, 2008, 44, 673-682.	1.1	21
81	Disentangling conscious from unconscious cognitive processing with event-related EEG potentials. Revue Neurologique, 2017, 173, 521-528.	0.6	21
82	Fourth meeting of the European Neurological Society 25â€“29 June 1994 Barcelona, Spain. Journal of Neurology, 1994, 241, 1-164.	1.8	20
83	Reportability and illusions of phenomenality in the light of the global neuronal workspace model. Behavioral and Brain Sciences, 2007, 30, 518-520.	0.4	20
84	Cognitive dissonance resolution depends on episodic memory. Scientific Reports, 2017, 7, 41320.	1.6	20
85	Probing consciousness in a sensory-disconnected paralyzed patient. Brain Injury, 2017, 31, 1398-1403.	0.6	20
86	Unifying turbulent dynamics framework distinguishes different brain states. Communications Biology, 2022, 5, .	2.0	20
87	Subliminal words durably affect neuronal activity. NeuroReport, 2007, 18, 1527-1531.	0.6	18
88	Neural detection of complex sound sequences or of statistical regularities in the absence of consciousness?. Brain, 2015, 138, e395-e395.	3.7	18
89	Face-selective neurons in the vicinity of the human fusiform face area. Neurology, 2019, 92, 197-198.	1.5	18
90	Auditory Event-Related â€œGlobal Effectâ€•Predicts Recovery of Overt Consciousness. Frontiers in Neurology, 2020, 11, 588233.	1.1	18

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91	A machine learning approach to screen for preclinical Alzheimer's disease. Neurobiology of Aging, 2021, 105, 205-216.	1.5	18
92	Further evidence for a central reorganisation of synaptic connectivity in patients with hypoglossalâ€“facial anastomosis in man. Brain Research, 2000, 864, 87-94.	1.1	17
93	Mismatch negativity to predict subsequent awakening in deeply sedated critically ill patients. British Journal of Anaesthesia, 2018, 121, 1290-1297.	1.5	17
94	Wisdom of the caregivers: pooling individual subjective reports to diagnose states of consciousness in brain-injured patients, a monocentric prospective study. BMJ Open, 2019, 9, e026211.	0.8	17
95	Functional and Structural Integrity of Frontoparietal Connectivity in Traumatic and Anoxic Coma. Critical Care Medicine, 2020, 48, e639-e647.	0.4	17
96	Conscious influences on subliminal cognition exist and are asymmetrical: Validation of a double prediction. Consciousness and Cognition, 2008, 17, 1359-1360.	0.8	16
97	Dissociating temporal attention from spatial attention and motor response preparation: A high-density EEG study. NeuroImage, 2016, 124, 947-957.	2.1	16
98	Neuroprognostication of Consciousness Recovery in a Patient with COVID-19 Related Encephalitis: Preliminary Findings from a Multimodal Approach. Brain Sciences, 2020, 10, 845.	1.1	16
99	The wide spectrum of COVID-19 neuropsychiatric complications within a multidisciplinary centre. Brain Communications, 2021, 3, fcab135.	1.5	16
100	Can One Suppress Subliminal Words?. Neuron, 2006, 52, 397-399.	3.8	15
101	Unconscious semantic processing of polysemous words is not automatic. Neuroscience of Consciousness, 2016, 2016, niw010.	1.4	14
102	Effect of loxapine on electrical brain activity, intracranial pressure, and middle cerebral artery flow velocity in traumatic brain-injured patients. Neurocritical Care, 2007, 7, 124-127.	1.2	13
103	Ripples of consciousness. Trends in Cognitive Sciences, 2013, 17, 552-554.	4.0	13
104	Is non-recognition of choreic movements in Huntington disease always pathological?. Neuropsychologia, 2013, 51, 748-759.	0.7	13
105	Unmasking Covert Language Processing in the Intensive Care Unit with Electroencephalography. Annals of Neurology, 2021, 89, 643-645.	2.8	13
106	Predicting the loss of responsiveness when falling asleep in humans. NeuroImage, 2022, 251, 119003.	2.1	12
107	Visual phenomenal consciousness: a neurological guided tour. Progress in Brain Research, 2005, 150, 185-195.	0.9	11
108	Importance, limits and caveats of the use of â€œdisorders of consciousnessâ€•to theorize consciousness. Neuroscience of Consciousness, 2021, 2021, niab048.	1.4	11

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109	Simultanagnosia in a patient with right brain lesions. Journal of Neurology, 2000, 247, 650-651.	1.8	10
110	Unconscious memory suppression. Cognition, 2018, 180, 191-199.	1.1	10
111	Unexpected good outcome in severe cerebral fat embolism syndrome. Annals of Clinical and Translational Neurology, 2018, 5, 988-995.	1.7	10
112	Exploring impaired consciousness: the MRI approach. Current Opinion in Neurology, 2007, 20, 627-631.	1.8	9
113	Dyspnea-pain counterirritation induced by inspiratory threshold loading: a laser-evoked potentials study. Journal of Applied Physiology, 2012, 112, 1166-1173.	1.2	9
114	Reply: Replicability and impact of statistics in the detection of neural responses of consciousness. Brain, 2016, 139, e31-e31.	3.7	9
115	Visual consciousness explained by its impairments. Current Opinion in Neurology, 2015, 28, 45-50.	1.8	8
116	Visual Consciousness: An Updated Neurological Tour. , 2009, , 271-281.		7
117	Reply: Response to â€˜Minimally conscious state or cortically mediated state?â€™. Brain, 2018, 141, e27-e27.	3.7	7
118	Toward a coherent structuration of disorders of consciousness expertise at a country scale: A proposal for France. Revue Neurologique, 2022, 178, 9-20.	0.6	7
119	Preserved auditory cognitive ERPs in severe akinetic mutism: a case report. Cognitive Brain Research, 2004, 19, 202-205.	3.3	6
120	Neurology of consciousness impairments. , 2013, , 59-67.		6
121	Conscious and unconscious expectancy effects: A behavioral, scalp and intracranial electroencephalography study. Clinical Neurophysiology, 2020, 131, 385-400.	0.7	6
122	Suggestion of self-(in)coherence modulates cognitive dissonance. PLoS ONE, 2018, 13, e0202204.	1.1	5
123	PrÃ©diction du rÃ©veil et dÃ©tection de la conscienceÂ: intÃ©rÃªt des potentiels Ã©voquÃ©s cognitifs. Reanimation: Journal De La Societe De Reanimation De Langue Francaise, 2009, 18, 659-663.	0.1	4
124	Splitting of the P3 component during dual-task processing in a patient with posterior callosal section. Cortex, 2013, 49, 730-747.	1.1	4
125	Comparing stimulus-evoked and spontaneous response of the face-selective multi-units in the human posterior fusiform gyrus. Neuroscience of Consciousness, 2021, 2021, niab033.	1.4	4
126	Imaging â€˜top-downâ€™ mobilization of visual information: A case study in a posterior split-brain patient. Neuropsychologia, 2014, 53, 94-103.	0.7	3

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127	Probing Representations of Gymnastics Movements: A Visual Priming Study. Cognitive Science, 2018, 42, 1529-1551.	0.8	3
128	Learning to see the Ebbinghaus illusion in the periphery reveals a top-down stabilization of size perception across the visual field. Scientific Reports, 2020, 10, 12622.	1.6	3
129	Complete hemispherotomy leads to lateralized functional organization and lower level of consciousness in the isolated hemisphere. Epilepsia Open, 2020, 5, 537-549.	1.3	3
130	Cognitive dissonance resolution depends on executive functions and frontal lobe integrity. Cortex, 2021, 139, 1-11.	1.1	3
131	Can application and transfer of strategy be observed in low visibility condition?. PLoS ONE, 2017, 12, e0173679.	1.1	3
132	Cerebral lymphoma in a patient with immunoglobulin paraproteinemic polyneuropathy. Muscle and Nerve, 1997, 20, 122-3.	1.0	3
133	Preferential Survival of an MBP-Specific T Cell Clone in an HLA-DR2 Multiple Sclerosis Patient. NeuroImmunoModulation, 2002, 10, 1-4.	0.9	2
134	4 h versus 1 h-nap-video-EEG monitoring in an Epileptology Unit. Clinical Neurophysiology, 2016, 127, 3135-3139.	0.7	2
135	Multidrug-resistant bacteria transmitted through high-density EEG in ICU. Seizure: the Journal of the British Epilepsy Association, 2016, 37, 65-68.	0.9	2
136	What are the boundaries of unconscious semantic cognition?. European Journal of Neuroscience, 2018, 47, 1287-1288.	1.2	2
137	Hard but so valuable to define hard criteria for empirical theories of consciousness. Cognitive Neuroscience, 2021, 12, 79-81.	0.6	2
138	A single-center series of 482 patients with functional motor disorders. Journal of Psychosomatic Research, 2021, 148, 110565.	1.2	2
139	Face-selective multi-unit activity in the proximity of the FFA modulated by facial expression stimuli. Neuropsychologia, 2022, 170, 108228.	0.7	2
140	What multiple sclerosis could bring to cognitive neuroscience?. Revue Neurologique, 2009, 165, 702-708.	0.6	1
141	A Few Suggestions about Suggestion, Psychoanalysis, and Neuroscience. Neuropsychoanalysis, 2010, 12, 32-34.	0.1	1
142	EEG: A valuable tool to screen for neurodegeneration in preclinical Alzheimerâ€™s disease. Alzheimer's and Dementia, 2020, 16, e039696.	0.4	1
143	CorrÃ©lats cÃ©rÃ©braux de l'amorÃ§age sÃ©mantique inconscient.. Medecine/Sciences, 1999, 15, 515.	0.0	1
144	Comment notre cohÃ©rence subjective se construit-elle? Le modÃ¨le de la dissonance cognitive. Bulletin De L'Academie Nationale De Medecine, 2015, 199, 253-259.	0.0	1

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145	Observer la conscience. Pourlascience Fr, 2019, NÂ° 500 - juin, 74-80.	0.0	1
146	Hypnotic Induction of Deafness to Elementary Sounds: An Electroencephalography Case-Study and a Proposed Cognitive and Neural Scenario. Frontiers in Neuroscience, 2022, 16, 756651.	1.4	1
147	Visual Consciousness. , 2016, , 281-295.		0
148	The Brain of Tomorrow, Google, and Creativity¹. Contemporary French and Francophone Studies, 2019, 23, 389-394.	0.0	0
149	Multimodal screening for neurodegeneration in preclinical Alzheimerâ€™s disease using EEG, APOE4 genotype, neuropsychological and MRI data. Alzheimer's and Dementia, 2020, 16, e044027.	0.4	0
150	Oculomotor artefacts mimic extreme deltabrush EEG features of autoimmune anti NMDA receptor encephalitis. Clinical Neurophysiology, 2021, 132, 1200-1202.	0.7	0
151	Comparing stimulus-evoked and spontaneous responses of face-selective multi-units in humans. Journal of Vision, 2021, 21, 2235.	0.1	0
152	Logical semantic operations in the absence of visual awareness. Journal of Vision, 2013, 13, 1143-1143.	0.1	0
153	Comparing stimulus-evoked and spontaneous response of the face-selective multi-units in the human posterior fusiform gyrus. Neuroscience of Consciousness, 2021, 2021, niab033.	1.4	0