

Laurent Cohen

List of Publications by Citations

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140
papers

23,741
citations

66
h-index

148
g-index

148
ext. papers

26,692
ext. citations

7.9
avg, IF

6.88
L-index

#	Paper	IF	Citations
140	Three parietal circuits for number processing. <i>Cognitive Neuropsychology</i> , 2003 , 20, 487-506	2.3	1837
139	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
138	The visual word form area: expertise for reading in the fusiform gyrus. <i>Trends in Cognitive Sciences</i> , 2003 , 7, 293-299	14	1091
137	Cerebral mechanisms of word masking and unconscious repetition priming. <i>Nature Neuroscience</i> , 2001 , 4, 752-8	25.5	1031
136	Language-specific tuning of visual cortex? Functional properties of the Visual Word Form Area. <i>Brain</i> , 2002 , 125, 1054-69	11.2	933
135	Cultural recycling of cortical maps. <i>Neuron</i> , 2007 , 56, 384-98	13.9	858
134	How learning to read changes the cortical networks for vision and language. <i>Science</i> , 2010 , 330, 1359-64	33.3	818
133	The unique role of the visual word form area in reading. <i>Trends in Cognitive Sciences</i> , 2011 , 15, 254-62	14	803
132	The neural code for written words: a proposal. <i>Trends in Cognitive Sciences</i> , 2005 , 9, 335-41	14	743
131	Cerebral pathways for calculation: double dissociation between rote verbal and quantitative knowledge of arithmetic. <i>Cortex</i> , 1997 , 33, 219-50	3.8	723
130	Topographical layout of hand, eye, calculation, and language-related areas in the human parietal lobe. <i>Neuron</i> , 2002 , 33, 475-87	13.9	627
129	Abstract representations of numbers in the animal and human brain. <i>Trends in Neurosciences</i> , 1998 , 21, 355-61	13.3	613
128	Specialization within the ventral stream: the case for the visual word form area. <i>NeuroImage</i> , 2004 , 22, 466-76	7.9	563
127	Arithmetic and the brain. <i>Current Opinion in Neurobiology</i> , 2004 , 14, 218-24	7.6	522
126	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
125	The visual word form area: a prelexical representation of visual words in the fusiform gyrus. <i>NeuroReport</i> , 2002 , 13, 321-5	1.7	500
124	Anatomical variability in the cortical representation of first and second language. <i>NeuroReport</i> , 1997 , 8, 3809-15	1.7	458

123	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
122	Illiterate to literate: behavioural and cerebral changes induced by reading acquisition. <i>Nature Reviews Neuroscience</i> , 2015 , 16, 234-44	13.5	363
121	Understanding dissociations in dyscalculia: a brain imaging study of the impact of number size on the cerebral networks for exact and approximate calculation. <i>Brain</i> , 2000 , 123 (Pt 11), 2240-55	11.2	311
120	Direct intracranial, FMRI, and lesion evidence for the causal role of left inferotemporal cortex in reading. <i>Neuron</i> , 2006 , 50, 191-204	13.9	292
119	Functional and structural alterations of the intraparietal sulcus in a developmental dyscalculia of genetic origin. <i>Neuron</i> , 2003 , 40, 847-58	13.9	281
118	Converging intracranial markers of conscious access. <i>PLoS Biology</i> , 2009 , 7, e61	9.7	279
117	Approximate quantities and exact number words: dissociable systems. <i>Neuropsychologia</i> , 2003 , 41, 1942-58	11.2	276
116	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
115	The role of the supplementary motor area (SMA) in word production. <i>Brain Research</i> , 2006 , 1076, 129-43	7	245
114	A ventral visual stream reading center independent of visual experience. <i>Current Biology</i> , 2011 , 21, 363-8	11.3	229
113	Pure alexia as a disconnection syndrome: new diffusion imaging evidence for an old concept. <i>Cortex</i> , 2008 , 44, 962-74	3.8	227
112	Cerebral activations during number multiplication and comparison: a PET study. <i>Neuropsychologia</i> , 1996 , 34, 1097-106	3.2	226
111	Reading normal and degraded words: contribution of the dorsal and ventral visual pathways. <i>NeuroImage</i> , 2008 , 40, 353-66	7.9	215
110	Two mental calculation systems: a case study of severe acalculia with preserved approximation. <i>Neuropsychologia</i> , 1991 , 29, 1045-54	3.2	209
109	Distinct unimodal and multimodal regions for word processing in the left temporal cortex. <i>NeuroImage</i> , 2004 , 23, 1256-70	7.9	208
108	Does subitizing reflect numerical estimation?. <i>Psychological Science</i> , 2008 , 19, 607-14	7.9	204
107	Dissociable mechanisms of subitizing and counting: Neuropsychological evidence from simultanagnosic patients.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1994 , 20, 958-975	2.6	197
106	Reading with sounds: sensory substitution selectively activates the visual word form area in the blind. <i>Neuron</i> , 2012 , 76, 640-52	13.9	192

105	Language and calculation within the parietal lobe: a combined cognitive, anatomical and fMRI study. <i>Neuropsychologia</i> , 2000 , 38, 1426-40	3.2	190
104	Information sharing in the brain indexes consciousness in noncommunicative patients. <i>Current Biology</i> , 2013 , 23, 1914-9	6.3	174
103	A direct intracranial record of emotions evoked by subliminal words. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7713-7	11.5	152
102	Specialization for written words over objects in the visual cortex. <i>NeuroImage</i> , 2011 , 56, 330-44	7.9	150
101	Learning to read improves the structure of the arcuate fasciculus. <i>Cerebral Cortex</i> , 2014 , 24, 989-95	5.1	143
100	Anatomical connections of the visual word form area. <i>Journal of Neuroscience</i> , 2014 , 34, 15402-14	6.6	135
99	Effortless control: executive attention and conscious feeling of mental effort are dissociable. <i>Neuropsychologia</i> , 2005 , 43, 1318-28	3.2	133
98	Nonconscious semantic processing of emotional words modulates conscious access. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7524-9	11.5	131
97	Neural correlates of cognitive impairment in posterior cortical atrophy. <i>Brain</i> , 2011 , 134, 1464-78	11.2	130
96	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 374-82	14	129
95	An open trial assessment of "The Number Race", an adaptive computer game for remediation of dyscalculia. <i>Behavioral and Brain Functions</i> , 2006 , 2, 20	4.1	127
94	The pathophysiology of letter-by-letter reading. <i>Neuropsychologia</i> , 2004 , 42, 1768-80	3.2	124
93	Productive and perceptive language reorganization in temporal lobe epilepsy. <i>NeuroImage</i> , 2005 , 24, 841-51	7.9	121
92	Distinct cortical areas for names of numbers and body parts independent of language and input modality. <i>NeuroImage</i> , 2000 , 12, 381-91	7.9	119
91	Event related potentials elicited by violations of auditory regularities in patients with impaired consciousness. <i>Neuropsychologia</i> , 2012 , 50, 403-18	3.2	115
90	Arteriovenous brain malformations: is functional MR imaging reliable for studying language reorganization in patients? Initial observations. <i>Radiology</i> , 2002 , 223, 672-82	20.5	113
89	Principles underlying the design of "The Number Race", an adaptive computer game for remediation of dyscalculia. <i>Behavioral and Brain Functions</i> , 2006 , 2, 19	4.1	111
88	Neglect Dyslexia for Numbers? A Case Report. <i>Cognitive Neuropsychology</i> , 1991 , 8, 39-58	2.3	111

87	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
86	Single-trial decoding of auditory novelty responses facilitates the detection of residual consciousness. <i>NeuroImage</i> , 2013 , 83, 726-38	7.9	106
85	Why do children make mirror errors in reading? Neural correlates of mirror invariance in the visual word form area. <i>NeuroImage</i> , 2010 , 49, 1837-48	7.9	102
84	Calculating without reading: unsuspected residual abilities in pure alexia. <i>Cognitive Neuropsychology</i> , 2000 , 17, 563-83	2.3	98
83	Slowly progressive anarthria with late anterior opercular syndrome: a variant form of frontal cortical atrophy syndromes. <i>Journal of the Neurological Sciences</i> , 1996 , 144, 44-58	3.2	98
82	A cognitive characterization of dyscalculia in Turner syndrome. <i>Neuropsychologia</i> , 2004 , 42, 288-98	3.2	96
81	Visualizing the neural bases of a disconnection syndrome with diffusion tensor imaging. <i>Journal of Cognitive Neuroscience</i> , 2002 , 14, 629-36	3.1	96
80	Universal brain systems for recognizing word shapes and handwriting gestures during reading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20762-7	11.5	89
79	Cueing attention after the stimulus is gone can retrospectively trigger conscious perception. <i>Current Biology</i> , 2013 , 23, 150-5	6.3	87
78	Breaking the symmetry: mirror discrimination for single letters but not for pictures in the Visual Word Form Area. <i>NeuroImage</i> , 2011 , 55, 742-9	7.9	86
77	Transient improvement of aphasia with zolpidem. <i>New England Journal of Medicine</i> , 2004 , 350, 949-50	59.2	77
76	Probing ERP correlates of verbal semantic processing in patients with impaired consciousness. <i>Neuropsychologia</i> , 2015 , 66, 279-92	3.2	66
75	Effects of literacy in early visual and occipitotemporal areas of Chinese and French readers. <i>Journal of Cognitive Neuroscience</i> , 2014 , 26, 459-75	3.1	66
74	Timing the impact of literacy on visual processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5233-42	11.5	62
73	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
72	Where Is the Length Effect? A Cross-Linguistic Study of Speech Production. <i>Journal of Memory and Language</i> , 1998 , 39, 331-346	3.8	56
71	Event-Related Potential, Time-frequency, and Functional Connectivity Facets of Local and Global Auditory Novelty Processing: An Intracranial Study in Humans. <i>Cerebral Cortex</i> , 2015 , 25, 4203-12	5.1	55
70	Literacy breaks mirror invariance for visual stimuli: a behavioral study with adult illiterates. <i>Journal of Experimental Psychology: General</i> , 2014 , 143, 887-94	4.7	55

69	Unconsciously deciphering handwriting: subliminal invariance for handwritten words in the visual word form area. <i>NeuroImage</i> , 2010 , 49, 1786-99	7.9	55
68	"What" and "where" in word reading: ventral coding of written words revealed by parietal atrophy. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 1998-2012	3.1	53
67	The neural bases of prosopagnosia and pure alexia: recent insights from functional neuroimaging. <i>Current Opinion in Neurology</i> , 2006 , 19, 386-91	7.1	47
66	The role of invariant line junctions in object and visual word recognition. <i>Vision Research</i> , 2009 , 49, 718-25.1	5.1	46
65	Brain activations during letter-by-letter reading: a follow-up study. <i>Neuropsychologia</i> , 2005 , 43, 1983-9	3.2	46
64	A Ventral Visual Stream Reading Center Independent of Visual Experience. <i>Current Biology</i> , 2012 , 22, 350-351	6.3	45
63	Learning to read without a left occipital lobe: right-hemispheric shift of visual word form area. <i>Annals of Neurology</i> , 2004 , 56, 890-4	9.4	41
62	Visual neglect in posterior cortical atrophy. <i>BMC Neurology</i> , 2010 , 10, 68	3.1	40
61	Brief report: visual-spatial deficit in a 16-year-old girl with maternally derived duplication of proximal 15q. <i>Journal of Autism and Developmental Disorders</i> , 2007 , 37, 1585-91	4.6	38
60	Multidimensional cognitive evaluation of patients with disorders of consciousness using EEG: A proof of concept study. <i>NeuroImage: Clinical</i> , 2017 , 13, 455-469	5.3	35
59	Literacy acquisition reduces the influence of automatic holistic processing of faces and houses. <i>Neuroscience Letters</i> , 2013 , 554, 105-9	3.3	35
58	Connectivity between right inferior frontal gyrus and supplementary motor area predicts after-effects of right frontal cathodal tDCS on picture naming speed. <i>Brain Stimulation</i> , 2014 , 7, 122-9	5.1	35
57	Reading acquisition enhances an early visual process of contour integration. <i>Developmental Science</i> , 2012 , 15, 139-49	4.5	33
56	Amnesia for arithmetic facts: a single case study. <i>Brain and Language</i> , 1994 , 47, 214-32	2.9	32
55	Lymphoma-induced polyradiculopathy in AIDS: two cases. <i>Journal of Neurology</i> , 1992 , 239, 132-4	5.5	32
54	Visual agnosia and posterior cerebral artery infarcts: an anatomical-clinical study. <i>PLoS ONE</i> , 2012 , 7, e30433	3.7	31
53	White matter damage impairs access to consciousness in multiple sclerosis. <i>NeuroImage</i> , 2009 , 44, 590-97.9	7.9	30
52	Inferring behavior from functional brain images. <i>Nature Neuroscience</i> , 1998 , 1, 549-50	25.5	28

51	Probing the lifetimes of auditory novelty detection processes. <i>Neuropsychologia</i> , 2010 , 48, 3145-54	3.2	27
50	Anomia for proper names after left thalamic infarct. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1994 , 57, 1283-4	5.5	27
49	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
48	Intact subliminal processing and delayed conscious access in multiple sclerosis. <i>Neuropsychologia</i> , 2007 , 45, 2683-91	3.2	22
47	Polymerase chain reaction of cerebrospinal fluid to diagnose Whipple's disease. <i>Lancet, The</i> , 1996 , 347, 329	4.0	22
46	The impact of letter spacing on reading: a test of the bigram coding hypothesis. <i>Journal of Vision</i> , 2011 , 11, 1-21	0.4	21
45	A man who borrowed cars. <i>Lancet, The</i> , 1999 , 353, 34	4.0	20
44	Brain mechanisms of recovery from pure alexia: A single case study with multiple longitudinal scans. <i>Neuropsychologia</i> , 2016 , 91, 36-49	3.2	19
43	The cerebral cost of breathing: an FMRI case-study in congenital central hypoventilation syndrome. <i>PLoS ONE</i> , 2014 , 9, e107850	3.7	19
42	Music and words in the visual cortex: The impact of musical expertise. <i>Cortex</i> , 2017 , 86, 260-274	3.8	18
41	Semantic processing of neglected numbers. <i>Cortex</i> , 2008 , 44, 673-82	3.8	17
40	Subliminal words durably affect neuronal activity. <i>NeuroReport</i> , 2007 , 18, 1527-31	1.7	17
39	Color Categorization Independent of Color Naming. <i>Cell Reports</i> , 2019 , 28, 2471-2479.e5	10.6	15
38	Distinctive Interaction Between Cognitive Networks and the Visual Cortex in Early Blind Individuals. <i>Cerebral Cortex</i> , 2019 , 29, 4725-4742	5.1	14
37	Unconscious semantic processing of polysemous words is not automatic. <i>Neuroscience of Consciousness</i> , 2016 , 2016, niw010	3.3	14
36	Impact of literacy on the functional connectivity of vision and language related networks. <i>NeuroImage</i> , 2020 , 213, 116722	7.9	12
35	Retardation of mentation in depressives: Posner's covert orientation of visual attention test. <i>Journal of Affective Disorders</i> , 1995 , 35, 107-15	6.6	12
34	The cerebral bases of the bouba-kiki effect. <i>NeuroImage</i> , 2019 , 186, 679-689	7.9	12

33	Reading impairment in schizophrenia: dysconnectivity within the visual system. <i>Neuropsychologia</i> , 2014 , 53, 187-96	3.2	11
32	Color Naming and Categorization Depend on Distinct Functional Brain Networks. <i>Cerebral Cortex</i> , 2021 , 31, 1106-1115	5.1	10
31	Exploring the anatomical encoding of voice with a mathematical model of the vocal system. <i>NeuroImage</i> , 2016 , 141, 31-39	7.9	9
30	Unconscious memory suppression. <i>Cognition</i> , 2018 , 180, 191-199	3.5	8
29	L'influence de l'apprentissage du langage écrit sur les aires du langage 2014 , 6, 173	0.1	8
28	Impaired functional differentiation for categories of objects in the ventral visual stream: A case of developmental visual impairment. <i>Neuropsychologia</i> , 2015 , 77, 52-61	3.2	7
27	"What is it?" A functional MRI and SPECT study of ictal speech in a second language. <i>Epilepsy and Behavior</i> , 2009 , 14, 396-9	3.2	7
26	Response to Carreiras et al: The role of visual similarity, feedforward, feedback and lateral pathways in reading. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 456-457	14	7
25	Minor hemisphere syndrome following left hemispheric lesion in a right handed patient. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1991 , 54, 842-3	5.5	7
24	Towards a universal neurobiological architecture for learning to read. <i>Behavioral and Brain Sciences</i> , 2012 , 35, 308-9	0.9	6
23	Closed-class words in sentence production: Evidence from a modality-specific dissociation. <i>Cognitive Neuropsychology</i> , 2004 , 21, 787-819	2.3	5
22	A woman with a relapsing psychosis who got better with prednisone. <i>Lancet, The</i> , 1996 , 347, 1228	4.0	5
21	Crossed aphasia with visceral situs inversus. <i>Annals of Neurology</i> , 1993 , 33, 215-8	9.4	5
20	Splitting of the P3 component during dual-task processing in a patient with posterior callosal section. <i>Cortex</i> , 2013 , 49, 730-47	3.8	4
19	Occam's razor is not a Swiss-army knife: A reply to Pillon and Pesenti. <i>Cognitive Neuropsychology</i> , 2001 , 18, 285-8	2.3	4
18	The audiovisual structure of onomatopoeias: An intrusion of real-world physics in lexical creation. <i>PLoS ONE</i> , 2018 , 13, e0193466	3.7	4
17	Reading music and words: The anatomical connectivity of musicians' visual cortex. <i>NeuroImage</i> , 2020 , 212, 116666	7.9	3
16	Imaging 'top-down' mobilization of visual information: a case study in a posterior split-brain patient. <i>Neuropsychologia</i> , 2014 , 53, 94-103	3.2	3

15	Distinctive interaction between cognitive networks and the visual cortex in early blind individuals		3
14	How does inattention affect written and spoken language processing?. <i>Cortex</i> , 2021 , 138, 212-227	3.8	3
13	Musical literacy shifts asymmetries in the ventral visual cortex. <i>NeuroImage</i> , 2017 , 156, 445-455	7.9	2
12	Intracranial dissection of word reading mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7938-40	11.5	2
11	Les bases neurales de l'apprentissage de la lecture. <i>Langue Francaise</i> , 2018 , 199, 17	0.1	2
10	Recovery from cortical blindness with mepivacaïne. <i>Annals of Clinical and Translational Neurology</i> , 2019 , 6, 1541-1545	5.3	1
9	Acalculia101-113		1
8	A dent in the head. <i>Lancet, The</i> , 2007 , 370, 1854	4.0	1
7	Activation of secondary auditory cortex in a deaf patient during song hallucinosis. <i>Journal of Neurology</i> , 2005 , 252, 738-9	5.5	1
6	Serial Cats Maiming Reveals Impulse Control Disorder Under Dopaminergic Agonists. <i>Movement Disorders Clinical Practice</i> , 2020 , 7, 117	2.2	1
5	Acalculia and Gerstmann's syndrome126-147		0
4	De l'anatomie des Dejerine aux donnés actuelles de l'imagerie cérébrale (le cas Courrière). <i>Revue Neurologique</i> , 2017 , 173, S12-S13	3	
3	L'itime conviction et le cerveau 1850 <i>Annales Medico-Psychologiques</i> , 2015 , 173, 601-602	0.2	
2	L'homme qui ne savait plus lire 2016 , N° 74, 20-24		
1	Acquired Dyslexias 2022 , 326-335		