Laurent Cohen

List of Publications by Year
in descending order

137 papers	28,892 citations	13068 68 h-index	11030 137 g-index
148 all docs	148 docs citations	148 times ranked	13451 citing authors

#	Article	IF	Citations
1	THREE PARIETAL CIRCUITS FOR NUMBER PROCESSING. Cognitive Neuropsychology, 2003, 20, 487-506.	0.4	2,143
2	The visual word form area. Brain, 2000, 123, 291-307.	3.7	1,744
3	The visual word form area: expertise for reading in the fusiform gyrus. Trends in Cognitive Sciences, 2003, 7, 293-299.	4.0	1,288
4	Cerebral mechanisms of word masking and unconscious repetition priming. Nature Neuroscience, 2001, 4, 752-758.	7.1	1,191
5	Languageâ€specific tuning of visual cortex? Functional properties of the Visual Word Form Area. Brain, 2002, 125, 1054-1069.	3.7	1,085
6	Cultural Recycling of Cortical Maps. Neuron, 2007, 56, 384-398.	3.8	1,064
7	The unique role of the visual word form area in reading. Trends in Cognitive Sciences, 2011, 15, 254-262.	4.0	1,039
8	How Learning to Read Changes the Cortical Networks for Vision and Language. Science, 2010, 330, 1359-1364.	6.0	1,030
9	The neural code for written words: a proposal. Trends in Cognitive Sciences, 2005, 9, 335-341.	4.0	918
10	Cerebral Pathways for Calculation: Double Dissociation between Rote Verbal and Quantitative Knowledge of Arithmetic. Cortex, 1997, 33, 219-250.	1.1	826
11	Abstract representations of numbers in the animal and human brain. Trends in Neurosciences, 1998, 21, 355-361.	4.2	777
12	Topographical Layout of Hand, Eye, Calculation, and Language-Related Areas in the Human Parietal Lobe. Neuron, 2002, 33, 475-487.	3.8	696
13	Specialization within the ventral stream: the case for the visual word form area. NeuroImage, 2004, 22, 466-476.	2.1	665
14	Hierarchical Coding of Letter Strings in the Ventral Stream: Dissecting the Inner Organization of the Visual Word-Form System. Neuron, 2007, 55, 143-156.	3.8	612
15	Arithmetic and the brain. Current Opinion in Neurobiology, 2004, 14, 218-224.	2.0	597
16	The visual word form area: a prelexical representation of visual words in the fusiform gyrus. NeuroReport, 2002, 13, 321-325.	0.6	590
17	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
18	Anatomical variability in the cortical representation of first and second language. NeuroReport, 1997, 8, 3809-3815.	0.6	524

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19	Illiterate to literate: behavioural and cerebral changes induced by reading acquisition. Nature Reviews Neuroscience, 2015, 16, 234-244.	4.9	502
20	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
21	Understanding dissociations in dyscalculia. Brain, 2000, 123, 2240-2255.	3.7	348
22	Direct Intracranial, fMRI, and Lesion Evidence for the Causal Role of Left Inferotemporal Cortex in Reading. Neuron, 2006, 50, 191-204.	3.8	337
23	Converging Intracranial Markers of Conscious Access. PLoS Biology, 2009, 7, e1000061.	2.6	326
24	Functional and Structural Alterations of the Intraparietal Sulcus in a Developmental Dyscalculia of Genetic Origin. Neuron, 2003, 40, 847-858.	3.8	319
25	Approximate quantities and exact number words: dissociable systems. Neuropsychologia, 2003, 41, 1942-1958.	0.7	303
26	A Ventral Visual Stream Reading Center Independent of Visual Experience. Current Biology, 2011, 21, 363-368.	1.8	293
27	The role of the supplementary motor area (SMA) in word production. Brain Research, 2006, 1076, 129-143.	1.1	288
28	Pure alexia as a disconnection syndrome: New diffusion imaging evidence for an old concept. Cortex, 2008, 44, 962-974.	1.1	271
29	Information Sharing in the Brain Indexes Consciousness in Noncommunicative Patients. Current Biology, 2013, 23, 1914-1919.	1.8	257
30	Cerebral activations during number multiplication and comparison: a PET study. Neuropsychologia, 1996, 34, 1097-1106.	0.7	256
31	Reading normal and degraded words: Contribution of the dorsal and ventral visual pathways. NeuroImage, 2008, 40, 353-366.	2.1	254
32	Reading with Sounds: Sensory Substitution Selectively Activates the Visual Word Form Area in the Blind. Neuron, 2012, 76, 640-652.	3.8	243
33	Does Subitizing Reflect Numerical Estimation?. Psychological Science, 2008, 19, 607-614.	1.8	237
34	Two mental calculation systems: A case study of severe acalculia with preserved approximation. Neuropsychologia, 1991, 29, 1045-1074.	0.7	236
35	Distinct unimodal and multimodal regions for word processing in the left temporal cortex. NeuroImage, 2004, 23, 1256-1270.	2.1	234
36	Language and calculation within the parietal lobe: a combined cognitive, anatomical and fMRI study. Neuropsychologia, 2000, 38, 1426-1440.	0.7	218

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37	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
38	Dissociable mechanisms of subitizing and counting: Neuropsychological evidence from simultanagnosic patients.. Journal of Experimental Psychology: Human Perception and Performance, 1994, 20, 958-975.	0.7	201
39	Anatomical Connections of the Visual Word Form Area. Journal of Neuroscience, 2014, 34, 15402-15414.	1.7	181
40	Specialization for written words over objects in the visual cortex. NeuroImage, 2011, 56, 330-344.	2.1	180
41	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. Trends in Cognitive Sciences, 2015, 19, 374-382.	4.0	180
42	Learning to Read Improves the Structure of the Arcuate Fasciculus. Cerebral Cortex, 2014, 24, 989-995.	1.6	174
43	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
44	An open trial assessment of "The Number Race", an adaptive computer game for remediation of dyscalculia. Behavioral and Brain Functions, 2006, 2, 20.	1.4	161
45	Effortless control: executive attention and conscious feeling of mental effort are dissociable. Neuropsychologia, 2005, 43, 1318-1328.	0.7	158
46	Neural correlates of cognitive impairment in posterior cortical atrophy. Brain, 2011, 134, 1464-1478.	3.7	155
47	Event related potentials elicited by violations of auditory regularities in patients with impaired consciousness. Neuropsychologia, 2012, 50, 403-418.	0.7	150
48	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
49	Principles underlying the design of "The Number Race", an adaptive computer game for remediation of dyscalculia. Behavioral and Brain Functions, 2006, 2, 19.	1.4	148
50	Single-trial decoding of auditory novelty responses facilitates the detection of residual consciousness. NeuroImage, 2013, 83, 726-738.	2.1	146
51	The pathophysiology of letter-by-letter reading. Neuropsychologia, 2004, 42, 1768-1780.	0.7	137
52	Productive and perceptive language reorganization in temporal lobe epilepsy. NeuroImage, 2005, 24, 841-851.	2.1	137
53	Visualizing the Neural Bases of a Disconnection Syndrome with Diffusion Tensor Imaging. Journal of Cognitive Neuroscience, 2002, 14, 629-636.	1.1	133
54	Distinct Cortical Areas for Names of Numbers and Body Parts Independent of Language and Input Modality. NeuroImage, 2000, 12, 381-391.	2.1	131

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55	Why do children make mirror errors in reading? Neural correlates of mirror invariance in the visual word form area. NeuroImage, 2010, 49, 1837-1848.	2.1	128
56	Universal brain systems for recognizing word shapes and handwriting gestures during reading. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20762-20767.	3.3	128
57	Neglect Dyslexia for Numbers? A Case Report. Cognitive Neuropsychology, 1991, 8, 39-58.	0.4	124
58	Arteriovenous Brain Malformations: Is Functional MR Imaging Reliable for Studying Language Reorganization in Patients? Initial Observations. Radiology, 2002, 223, 672-682.	3.6	124
59	CALCULATING WITHOUT READING: UNSUSPECTED RESIDUAL ABILITIES IN PURE ALEXIA. Cognitive Neuropsychology, 2000, 17, 563-583.	0.4	118
60	Slowly progressive anarthria with late anterior opercular syndrome: a variant form of frontal cortical atrophy syndromes. Journal of the Neurological Sciences, 1996, 144, 44-58.	0.3	117
61	Cueing Attention after the Stimulus Is Gone Can Retrospectively Trigger Conscious Perception. Current Biology, 2013, 23, 150-155.	1.8	116
62	A cognitive characterization of dyscalculia in Turner syndrome. Neuropsychologia, 2004, 42, 288-298.	0.7	109
63	Breaking the symmetry: Mirror discrimination for single letters but not for pictures in the Visual Word Form Area. NeuroImage, 2011, 55, 742-749.	2.1	104
64	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
65	Transient Improvement of Aphasia with Zolpidem. New England Journal of Medicine, 2004, 350, 949-950.	13.9	89
66	Effects of Literacy in Early Visual and Occipitotemporal Areas of Chinese and French Readers. Journal of Cognitive Neuroscience, 2014, 26, 459-475.	1.1	87
67	A Ventral Visual Stream Reading Center Independent of Visual Experience. Current Biology, 2012, 22, 350-351.	1.8	84
68	Probing ERP correlates of verbal semantic processing in patients with impaired consciousness. Neuropsychologia, 2015, 66, 279-292.	0.7	84
69	Timing the impact of literacy on visual processing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5233-42.	3.3	82
70	Can the meaning of multiple words be integrated unconsciously?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130212.	1.8	82
71	Literacy breaks mirror invariance for visual stimuli: A behavioral study with adult illiterates.. Journal of Experimental Psychology: General, 2014, 143, 887-894.	1.5	72
72	Unconsciously deciphering handwriting: Subliminal invariance for handwritten words in the visual word form area. NeuroImage, 2010, 49, 1786-1799.	2.1	65

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73	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
74	Where Is the Length Effect? A Cross-Linguistic Study of Speech Production. Journal of Memory and Language, 1998, 39, 331-346.	1.1	60
75	The neural bases of prosopagnosia and pure alexia: recent insights from functional neuroimaging. Current Opinion in Neurology, 2006, 19, 386-391.	1.8	59
76	The role of invariant line junctions in object and visual word recognition. Vision Research, 2009, 49, 718-725.	0.7	59
77	Brain activations during letter-by-letter reading: A follow-up study. Neuropsychologia, 2005, 43, 1983-1989.	0.7	57
78	Visual neglect in posterior cortical atrophy. BMC Neurology, 2010, 10, 68.	0.8	54
79	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
80	A mesial-to-lateral dissociation for orthographic processing in the visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21936-21946.	3.3	52
81	Learning to read without a left occipital lobe: Right-hemispheric shift of visual word form area. Annals of Neurology, 2004, 56, 890-894.	2.8	50
82	Literacy acquisition reduces the influence of automatic holistic processing of faces and houses. Neuroscience Letters, 2013, 554, 105-109.	1.0	44
83	Connectivity between Right Inferior Frontal Gyrus and Supplementary Motor Area Predicts After-Effects of Right Frontal Cathodal tDCS on Picture Naming Speed. Brain Stimulation, 2014, 7, 122-129.	0.7	43
84	Visual Agnosia and Posterior Cerebral Artery Infarcts: An Anatomical-Clinical Study. PLoS ONE, 2012, 7, e30433.	1.1	41
85	Reading acquisition enhances an early visual process of contour integration. Developmental Science, 2012, 15, 139-149.	1.3	41
86	Lymphoma-induced polyradiculopathy in AIDS: Two cases. Journal of Neurology, 1992, 239, 132-134.	1.8	40
87	Probing the lifetimes of auditory novelty detection processes. Neuropsychologia, 2010, 48, 3145-3154.	0.7	40
88	Brief Report: Visual-Spatial Deficit in a 16-year-old Girl with Maternally Derived Duplication of Proximal 15q. Journal of Autism and Developmental Disorders, 2007, 37, 1585-1591.	1.7	39
89	Amnesia for Arithmetic Facts: A Single Case Study. Brain and Language, 1994, 47, 214-232.	0.8	37
90	White matter damage impairs access to consciousness in multiple sclerosis. NeuroImage, 2009, 44, 590-599.	2.1	37

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91	Polymerase chain reaction of cerebrospinal fluid to diagnose Whipple's disease. Lancet, The, 1996, 347, 329.	6.3	35
92	A man who borrowed cars. Lancet, The, 1999, 353, 34.	6.3	35
93	Anomia for proper names after left thalamic infarct.. Journal of Neurology, Neurosurgery and Psychiatry, 1994, 57, 1283-1284.	0.9	34
94	Inferring behavior from functional brain images. Nature Neuroscience, 1998, 1, 549-549.	7.1	33
95	Impact of literacy on the functional connectivity of vision and language related networks. NeuroImage, 2020, 213, 116722.	2.1	32
96	The impact of letter spacing on reading: A test of the bigram coding hypothesis. Journal of Vision, 2011, 11, 8-8.	0.1	30
97	Distinctive Interaction Between Cognitive Networks and the Visual Cortex in Early Blind Individuals. Cerebral Cortex, 2019, 29, 4725-4742.	1.6	29
98	Color Categorization Independent of Color Naming. Cell Reports, 2019, 28, 2471-2479.e5.	2.9	27
99	The cerebral bases of the bouba-kiki effect. NeuroImage, 2019, 186, 679-689.	2.1	27
100	Intact subliminal processing and delayed conscious access in multiple sclerosis. Neuropsychologia, 2007, 45, 2683-2691.	0.7	26
101	Music and words in the visual cortex: The impact of musical expertise. Cortex, 2017, 86, 260-274.	1.1	26
102	The Cerebral Cost of Breathing: An fMRI Case-Study in Congenital Central Hypoventilation Syndrome. PLoS ONE, 2014, 9, e107850.	1.1	26
103	Brain mechanisms of recovery from pure alexia: A single case study with multiple longitudinal scans. Neuropsychologia, 2016, 91, 36-49.	0.7	25
104	Exploring the anatomical encoding of voice with a mathematical model of the vocal system. NeuroImage, 2016, 141, 31-39.	2.1	22
105	Semantic processing of neglected numbers. Cortex, 2008, 44, 673-682.	1.1	21
106	Subliminal words durably affect neuronal activity. NeuroReport, 2007, 18, 1527-1531.	0.6	18
107	How does inattention affect written and spoken language processing?. Cortex, 2021, 138, 212-227.	1.1	16
108	Retardation of mentation in depressives: Posner's covert orientation of visual attention test. Journal of Affective Disorders, 1995, 35, 107-115.	2.0	15

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109	Reading impairment in schizophrenia: Dysconnectivity within the visual system. Neuropsychologia, 2014, 53, 187-196.	0.7	15
110	Unconscious semantic processing of polysemous words is not automatic. Neuroscience of Consciousness, 2016, 2016, niw010.	1.4	14
111	Response to Carreiras et al: The role of visual similarity, feedforward, feedback and lateral pathways in reading. Trends in Cognitive Sciences, 2007, 11, 456-457.	4.0	12
112	Crossed aphasia with visceral situs inversus. Annals of Neurology, 1993, 33, 215-218.	2.8	11
113	A woman with a relapsing psychosis who got better with prednisone. Lancet, The, 1996, 347, 1228.	6.3	11
114	Color Naming and Categorization Depend on Distinct Functional Brain Networks. Cerebral Cortex, 2021, 31, 1106-1115.	1.6	11
115	Minor hemisphere syndrome following left hemispheric lesion in a right handed patient.. Journal of Neurology, Neurosurgery and Psychiatry, 1991, 54, 842-843.	0.9	10
116	Unconscious memory suppression. Cognition, 2018, 180, 191-199.	1.1	10
117	Reading music and words: The anatomical connectivity of musiciansâ€™ visual cortex. NeuroImage, 2020, 212, 116666.	2.1	10
118	â€œWhat is it?â€•A functional MRI and SPECT study of ictal speech in a second language. Epilepsy and Behavior, 2009, 14, 396-399.	0.9	8
119	Towards a universal neurobiological architecture for learning to read. Behavioral and Brain Sciences, 2012, 35, 308-309.	0.4	8
120	Impaired functional differentiation for categories of objects in the ventral visual stream: A case of developmental visual impairment. Neuropsychologia, 2015, 77, 52-61.	0.7	8
121	The audiovisual structure of onomatopoeias: An intrusion of real-world physics in lexical creation. PLoS ONE, 2018, 13, e0193466.	1.1	7
122	Occam's razor is not a Swiss-army knife: A reply to Pillon and Pesenti. Cognitive Neuropsychology, 2001, 18, 285-288.	0.4	5
123	Closed-class words in sentence production: Evidence from a modality-specific dissociation. Cognitive Neuropsychology, 2004, 21, 787-819.	0.4	5
124	Acalculia and Gerstmann's syndrome. , 2007, , 126-147.		4
125	Splitting of the P3 component during dual-task processing in a patient with posterior callosal section. Cortex, 2013, 49, 730-747.	1.1	4
126	Activation of secondary auditory cortex in a deaf patient during song hallucinosis. Journal of Neurology, 2005, 252, 738-739.	1.8	3

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127	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
128	Musical literacy shifts asymmetries in the ventral visual cortex. NeuroImage, 2017, 156, 445-455.	2.1	3
129	Recovery from cortical blindness with mepivacaÃ˜ne. Annals of Clinical and Translational Neurology, 2019, 6, 1541-1545.	1.7	3
130	Intracranial dissection of word reading mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7938-7940.	3.3	2
131	Neural Coding of Written Words in the Visual Word Form Area. , 2010, , 111-146.		2
132	A dent in the head. Lancet, The, 2007, 370, 1854.	6.3	1
133	Acalculia. , 0, , 101-113.		1
134	Serial Cats Maiming Reveals Impulse Control Disorder Under Dopaminergic Agonists. Movement Disorders Clinical Practice, 2020, 7, 117-117.	0.8	1
135	Acquired Dyslexias. , 2022, , 326-335.		0
136	Anatomical and Functional Correlates of Acquired Peripheral Dyslexias. , 2010, , 223-263.		0
137	Lâ€™homme qui ne savait plus lire. , 2016, NÂ° 74, 20-24.		0