Ghislaine Dehaene-Lambertz

List of Publications by Year
in descending order

108 papers	16,952 citations	34105 52 h-index	24258 110 g-index
127 all docs	127 docs citations	127 times ranked	11116 citing authors

#	Article	IF	Citations
1	The visual word form area. Brain, 2000, 123, 291-307.	7.6	1,744
2	A precursor of language acquisition in young infants. Cognition, 1988, 29, 143-178.	2.2	1,279
3	Imaging unconscious semantic priming. Nature, 1998, 395, 597-600.	27.8	1,100
4	How Learning to Read Changes the Cortical Networks for Vision and Language. Science, 2010, 330, 1359-1364.	12.6	1,030
5	Functional Neuroimaging of Speech Perception in Infants. Science, 2002, 298, 2013-2015.	12.6	954
6	Abstract representations of numbers in the animal and human brain. Trends in Neurosciences, 1998, 21, 355-361.	8.6	777
7	Sounds and silence: An optical topography study of language recognition at birth. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11702-11705.	7.1	644
8	The early development of brain white matter: A review of imaging studies in fetuses, newborns and infants. Neuroscience, 2014, 276, 48-71.	2.3	624
9	Speed and cerebral correlates of syllable discrimination in infants. Nature, 1994, 370, 292-295.	27.8	364
10	Asynchrony of the early maturation of white matter bundles in healthy infants: Quantitative landmarks revealed noninvasively by diffusion tensor imaging. Human Brain Mapping, 2008, 29, 14-27.	3.6	340
11	Functional organization of perisylvian activation during presentation of sentences in preverbal infants. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14240-14245.	7.1	323
12	Electrophysiological correlates of categorical phoneme perception in adults. NeuroReport, 1997, 8, 919-924.	1.2	300
13	Assessment of the early organization and maturation of infants' cerebral white matter fiber bundles: A feasibility study using quantitative diffusion tensor imaging and tractography. NeuroImage, 2006, 30, 1121-1132.	4.2	300
14	Syllabic discrimination in premature human infants prior to complete formation of cortical layers. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4846-4851.	7.1	298
15	Neural correlates of switching from auditory to speech perception. NeuroImage, 2005, 24, 21-33.	4.2	235
16	The Influence of Socioeconomic Status on Childrenâ€™s Brain Structure. PLoS ONE, 2012, 7, e42486.	2.5	235
17	Structural Asymmetries in the Infant Language and Sensori-Motor Networks. Cerebral Cortex, 2009, 19, 414-423.	2.9	233
18	A phonological representation in the infant brain. NeuroReport, 1998, 9, 1885-1888.	1.2	227

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19	The emergence of the visual word form: Longitudinal evolution of category-specific ventral visual areas during reading acquisition. PLoS Biology, 2018, 16, e2004103.	5.6	221
20	The Infancy of the Human Brain. Neuron, 2015, 88, 93-109.	8.1	207
21	Moving along the number line: Operational momentum in nonsymbolic arithmetic. Perception & Psychophysics, 2007, 69, 1324-1333.	2.3	198
22	Distinct Cerebral Pathways for Object Identity and Number in Human Infants. PLoS Biology, 2008, 6, e11.	5.6	190
23	Language or music, mother or Mozart? Structural and environmental influences on infantsâ€™ language networks. Brain and Language, 2010, 114, 53-65.	1.6	185
24	Electrophysiological Correlates of Phonological Processing: A Cross-linguistic Study. Journal of Cognitive Neuroscience, 2000, 12, 635-647.	2.3	182
25	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. Trends in Cognitive Sciences, 2015, 19, 374-382.	7.8	180
26	Electrophysiological evidence for automatic phonetic processing in neonates. NeuroReport, 2001, 12, 3155-3158.	1.2	176
27	Cerebral Specialization for Speech and Non-Speech Stimuli in Infants. Journal of Cognitive Neuroscience, 2000, 12, 449-460.	2.3	172
28	New human-specific brain landmark: The depth asymmetry of superior temporal sulcus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1208-1213.	7.1	157
29	Nature and nurture in language acquisition: anatomical and functional brain-imaging studies in infants. Trends in Neurosciences, 2006, 29, 367-373.	8.6	150
30	Early Maturation of the Linguistic Dorsal Pathway in Human Infants. Journal of Neuroscience, 2011, 31, 1500-1506.	3.6	149
31	Cortical networks for vision and language in dyslexic and normal children of variable socio-economic status. NeuroImage, 2012, 61, 258-274.	4.2	144
32	A Neural Marker of Perceptual Consciousness in Infants. Science, 2013, 340, 376-380.	12.6	141
33	Functional segregation of cortical language areas by sentence repetition. Human Brain Mapping, 2006, 27, 360-371.	3.6	132
34	Structural Encoding of Body and Face in Human Infants and Adults. Journal of Cognitive Neuroscience, 2005, 17, 1328-1340.	2.3	131
35	Earlier Speech Exposure Does Not Accelerate Speech Acquisition. Journal of Neuroscience, 2012, 32, 11159-11163.	3.6	126
36	Hearing Faces: How the Infant Brain Matches the Face It Sees with the Speech It Hears. Journal of Cognitive Neuroscience, 2008, 21, 905-921.	2.3	125

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37	Exploring the Early Organization and Maturation of Linguistic Pathways in the Human Infant Brain. Cerebral Cortex, 2016, 26, 2283-2298.	2.9	125
38	Investigating the neural correlates of continuous speech computation with frequency-tagged neuroelectric responses. NeuroImage, 2009, 44, 509-519.	4.2	121
39	Planum temporale asymmetry in developmental dyslexia: Revisiting an old question. Human Brain Mapping, 2014, 35, 5717-5735.	3.6	119
40	Microstructural Correlates of Infant Functional Development: Example of the Visual Pathways. Journal of Neuroscience, 2008, 28, 1943-1948.	3.6	107
41	A robust cerebral asymmetry in the infant brain: The rightward superior temporal sulcus. NeuroImage, 2011, 58, 716-723.	4.2	105
42	Common Neural Basis for Phoneme Processing in Infants and Adults. Journal of Cognitive Neuroscience, 2004, 16, 1375-1387.	2.3	97
43	Anatomical correlations of the international 10â€“20 sensor placement system in infants. NeuroImage, 2014, 99, 342-356.	4.2	92
44	A Temporal Bottleneck in the Language Comprehension Network. Journal of Neuroscience, 2012, 32, 9089-9102.	3.6	88
45	A hierarchy of cortical responses to sequence violations in three-month-old infants. Cognition, 2014, 132, 137-150.	2.2	84
46	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.	7.1	82
47	Perceptual constraints and the learnability of simple grammars. Cognition, 2007, 105, 577-614.	2.2	79
48	Interoperable atlases of the human brain. NeuroImage, 2014, 99, 525-532.	4.2	78
49	A fully Bayesian approach to the parcel-based detection-estimation of brain activity in fMRI. NeuroImage, 2008, 41, 941-969.	4.2	76
50	How reading acquisition changes childrenâ€™s spoken language network. Brain and Language, 2013, 127, 356-365.	1.6	73
51	Electrophysiological evidence of statistical learning of long-distance dependencies in 8-month-old preterm and full-term infants. Brain and Language, 2015, 148, 25-36.	1.6	69
52	Faster Orientation Latencies Toward Native Language in Two-Month-Old Infants. Language and Speech, 1998, 41, 21-43.	1.1	61
53	Multi-parametric evaluation of the white matter maturation. Brain Structure and Function, 2015, 220, 3657-3672.	2.3	60
54	Genetic Influence on the Sulcal Pits: On the Origin of the First Cortical Folds. Cerebral Cortex, 2018, 28, 1922-1933.	2.9	59

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55	A Functionally Guided Approach to the Morphometry of Occipitotemporal Regions in Developmental Dyslexia: Evidence for Differential Effects in Boys and Girls. Journal of Neuroscience, 2013, 33, 11296-11301.	3.6	57
56	Genetic and Environmental Influences on the Visual Word Form and Fusiform Face Areas. Cerebral Cortex, 2015, 25, 2478-2493.	2.9	54
57	Development of a view-invariant representation of the human head. Cognition, 2007, 102, 261-288.	2.2	51
58	Right but not left hemispheric discrimination of faces in infancy. Nature Human Behaviour, 2018, 2, 67-79.	12.0	50
59	Atlas-Free Surface Reconstruction of the Cortical Grey-White Interface in Infants. PLoS ONE, 2011, 6, e27128.	2.5	49
60	Spontaneous number discrimination of multi-format auditory stimuli in cotton-top tamarins (Saguinus oedipus). Cognition, 2002, 86, B23-B32.	2.2	48
61	Mathematical difficulties in developmental coordination disorder: Symbolic and nonsymbolic number processing. Research in Developmental Disabilities, 2015, 43-44, 167-178.	2.2	48
62	Organising white matter in a brain without corpus callosum fibres. Cortex, 2015, 63, 155-171.	2.4	46
63	The dynamics of cortical folding waves and prematurity-related deviations revealed by spatial and spectral analysis of gyrification. NeuroImage, 2019, 185, 934-946.	4.2	46
64	Twoâ€yearâ€olds compute syntactic structure onâ€line. Developmental Science, 2010, 13, 69-76.	2.4	42
65	Functional Maps at the Onset of Auditory Inputs in Very Early Preterm Human Neonates. Cerebral Cortex, 2017, 27, bhw103.	2.9	41
66	Language ability in preterm children is associated with arcuate fasciculi microstructure at term. Human Brain Mapping, 2017, 38, 3836-3847.	3.6	40
67	A universal reading network and its modulation by writing system and reading ability in French and Chinese children. ELife, 2020, 9, .	6.0	39
68	Combined permutation test and mixed-effect model for group average analysis in fMRI. Human Brain Mapping, 2006, 27, 402-410.	3.6	37
69	The human infant brain: A neural architecture able to learn language. Psychonomic Bulletin and Review, 2017, 24, 48-55.	2.8	37
70	Is the brain prewired for letters?. Nature Neuroscience, 2016, 19, 1192-1193.	14.8	36
71	Correction strategy for diffusion-weighted images corrupted with motion: application to the DTI evaluation of infants' white matter. Magnetic Resonance Imaging, 2014, 32, 981-992.	1.8	34
72	Gaze Following Is Accelerated in Healthy Preterm Infants. Psychological Science, 2014, 25, 1884-1892.	3.3	31

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73	MRI and M/EEG studies of the White Matter Development in Human Fetuses andÂInfants: Review and Opinion. Brain Plasticity, 2016, 2, 49-69.	3.5	30
74	The chaotic morphology of the left superior temporal sulcus is genetically constrained. NeuroImage, 2018, 174, 297-307.	4.2	27
75	Symbolic labeling in 5-month-old human infants. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5805-5810.	7.1	27
76	Numerical abilities of school-age children with Developmental Coordination Disorder (DCD): A behavioral and eye-tracking study. Human Movement Science, 2017, 55, 315-326.	1.4	25
77	Connectivity between the visual word form area and the parietal lobe improves after the first year of reading instruction: a longitudinal MRI study in children. Brain Structure and Function, 2019, 224, 1519-1536.	2.3	25
78	Anatomo-functional correlates of auditory development in infancy. Developmental Cognitive Neuroscience, 2020, 42, 100752.	4.0	25
79	Phoneme perception in a neonate with a left sylvian infarct. Brain and Language, 2004, 88, 26-38.	1.6	24
80	eQTL of KCNK2 regionally influences the brain sulcal widening: evidence from 15,597 UK Biobank participants with neuroimaging data. Brain Structure and Function, 2019, 224, 847-857.	2.3	21
81	Automated Pipeline for Infants Continuous EEG (APICE): A flexible pipeline for developmental cognitive studies. Developmental Cognitive Neuroscience, 2022, 54, 101077.	4.0	21
82	Neural indicators of articulator-specific sensorimotor influences on infant speech perception. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
83	Orthogonal neural codes for speech in the infant brain. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
84	ERP evidence for on-line syntactic computations in 2-year-olds. Developmental Cognitive Neuroscience, 2016, 19, 164-173.	4.0	18
85	Ambiguous function words do not prevent 18-month-olds from building accurate syntactic category expectations: An ERP study. Neuropsychologia, 2017, 98, 4-12.	1.6	18
86	Consequence of intraventricular hemorrhage on neurovascular coupling evoked by speech syllables in preterm neonates. Developmental Cognitive Neuroscience, 2018, 30, 60-69.	4.0	18
87	Remarks on the analysis of steady-state responses: Spurious artifacts introduced by overlapping epochs. Cortex, 2021, 142, 370-378.	2.4	18
88	Sleeping neonates track transitional probabilities in speech but only retain the first syllable of words. Scientific Reports, 2022, 12, 4391.	3.3	18
89	Cross-linguistic approaches to speech processing. Current Opinion in Neurobiology, 1994, 4, 171-176.	4.2	15
90	A neural window on the emergence of cognition. Annals of the New York Academy of Sciences, 2016, 1369, 7-23.	3.8	15

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91	Magnetoencephalographic signatures of hierarchical rule learning in newborns. Developmental Cognitive Neuroscience, 2020, 46, 100871.	4.0	15
92	A New Strategy for Fast MRI-Based Quantification of the Myelin Water Fraction: Application to Brain Imaging in Infants. PLoS ONE, 2016, 11, e0163143.	2.5	14
93	Tracking Adult Literacy Acquisition With Functional <scp>MRI</scp>: A Singleâ€Case Study. Mind, Brain, and Education, 2017, 11, 121-132.	1.9	14
94	Electrophysiological evidence of phonetic normalization across coarticulation in infants. Developmental Science, 2016, 19, 710-722.	2.4	12
95	Enhancer Locus in ch14q23.1 Modulates Brain Asymmetric Temporal Regions Involved in Language Processing. Cerebral Cortex, 2020, 30, 5322-5332.	2.9	12
96	Early asymmetric inter-hemispheric transfer in the auditory network: insights from infants with corpus callosum agenesis. Brain Structure and Function, 2018, 223, 2893-2905.	2.3	11
97	In defense of learning by selection: Neurobiological and behavioral evidence revisited. Behavioral and Brain Sciences, 1997, 20, 560-561.	0.7	10
98	Evolution of reading and face circuits during the first three years of reading acquisition. NeuroImage, 2022, 259, 119394.	4.2	10
99	Electrophysiological and hemodynamic mismatch responses in rats listening to human speech syllables. PLoS ONE, 2017, 12, e0173801.	2.5	9
100	Neurodevelopment and asymmetry of auditory-related responses to repetitive syllabic stimuli in preterm neonates based on frequency-domain analysis. Scientific Reports, 2019, 9, 10654.	3.3	9
101	Impaired functional differentiation for categories of objects in the ventral visual stream: A case of developmental visual impairment. Neuropsychologia, 2015, 77, 52-61.	1.6	8
102	Multiway generalized canonical correlation analysis. Biostatistics, 2022, 23, 240-256.	1.5	7
103	Explicit access to phonetic representations in 3-month-old infants. Cognition, 2021, 213, 104613.	2.2	5
104	How do electrophysiological measures in infants relate to the brain structural maturation?. Neurophysiologie Clinique, 2017, 47, 186.	2.2	4
105	Chapitre 3. Bases cÃ©rÃ©brales de lâ€™acquisition du langage. , 2000, , 61-93.		3
106	Realistic Head Model Design and 3D Brain Imaging of NIRS Signals Using Audio Stimuli on Preterm Neonates for Intra-Ventricular Hemorrhage Diagnosis. Lecture Notes in Computer Science, 2012, 15, 172-179.	1.3	2
107	Regional study of the genetic influence on the sulcal pits. , 2017, , .		0
108	Intraventricular hemorrhage consequences on cerebral neurovascular coupling in premature infants, A multimodal neuroimaging EEG-fNIRS approach. , 2016, , .		0