

Ghislaine Dehaene-Lambertz

List of Publications by Year in descending order

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Version: 2024-02-01

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	Multiway generalized canonical correlation analysis. <i>Biostatistics</i> , 2022, 23, 240-256.	1.5	7
2	Automated Pipeline for Infants Continuous EEG (APICE): A flexible pipeline for developmental cognitive studies. <i>Developmental Cognitive Neuroscience</i> , 2022, 54, 101077.	4.0	21
3	Sleeping neonates track transitional probabilities in speech but only retain the first syllable of words. <i>Scientific Reports</i> , 2022, 12, 4391.	3.3	18
4	Evolution of reading and face circuits during the first three years of reading acquisition. <i>NeuroImage</i> , 2022, 259, 119394.	4.2	10
5	Neural indicators of articulator-specific sensorimotor influences on infant speech perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20
6	Orthogonal neural codes for speech in the infant brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20
7	Explicit access to phonetic representations in 3-month-old infants. <i>Cognition</i> , 2021, 213, 104613.	2.2	5
8	Remarks on the analysis of steady-state responses: Spurious artifacts introduced by overlapping epochs. <i>Cortex</i> , 2021, 142, 370-378.	2.4	18
9	Anatomo-functional correlates of auditory development in infancy. <i>Developmental Cognitive Neuroscience</i> , 2020, 42, 100752.	4.0	25
10	Magnetoencephalographic signatures of hierarchical rule learning in newborns. <i>Developmental Cognitive Neuroscience</i> , 2020, 46, 100871.	4.0	15
11	Enhancer Locus in ch14q23.1 Modulates Brain Asymmetric Temporal Regions Involved in Language Processing. <i>Cerebral Cortex</i> , 2020, 30, 5322-5332.	2.9	12
12	A universal reading network and its modulation by writing system and reading ability in French and Chinese children. <i>eLife</i> , 2020, 9, .	6.0	39
13	Neurodevelopment and asymmetry of auditory-related responses to repetitive syllabic stimuli in preterm neonates based on frequency-domain analysis. <i>Scientific Reports</i> , 2019, 9, 10654.	3.3	9
14	Symbolic labeling in 5-month-old human infants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5805-5810.	7.1	27
15	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. <i>Brain Structure and Function</i> , 2019, 224, 1519-1536.	2.3	25
16	eQTL of KCNK2 regionally influences the brain sulcal widening: evidence from 15,597 UK Biobank participants with neuroimaging data. <i>Brain Structure and Function</i> , 2019, 224, 847-857.	2.3	21
17	The dynamics of cortical folding waves and prematurity-related deviations revealed by spatial and spectral analysis of gyrification. <i>NeuroImage</i> , 2019, 185, 934-946.	4.2	46
18	Early asymmetric inter-hemispheric transfer in the auditory network: insights from infants with corpus callosum agenesis. <i>Brain Structure and Function</i> , 2018, 223, 2893-2905.	2.3	11

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19	Consequence of intraventricular hemorrhage on neurovascular coupling evoked by speech syllables in preterm neonates. <i>Developmental Cognitive Neuroscience</i> , 2018, 30, 60-69.	4.0	18
20	The chaotic morphology of the left superior temporal sulcus is genetically constrained. <i>NeuroImage</i> , 2018, 174, 297-307.	4.2	27
21	Genetic Influence on the Sulcal Pits: On the Origin of the First Cortical Folds. <i>Cerebral Cortex</i> , 2018, 28, 1922-1933.	2.9	59
22	Right but not left hemispheric discrimination of faces in infancy. <i>Nature Human Behaviour</i> , 2018, 2, 67-79.	12.0	50
23	The emergence of the visual word form: Longitudinal evolution of category-specific ventral visual areas during reading acquisition. <i>PLoS Biology</i> , 2018, 16, e2004103.	5.6	221
24	Functional Maps at the Onset of Auditory Inputs in Very Early Preterm Human Neonates. <i>Cerebral Cortex</i> , 2017, 27, bhw103.	2.9	41
25	The human infant brain: A neural architecture able to learn language. <i>Psychonomic Bulletin and Review</i> , 2017, 24, 48-55.	2.8	37
26	Language ability in preterm children is associated with arcuate fasciculi microstructure at term. <i>Human Brain Mapping</i> , 2017, 38, 3836-3847.	3.6	40
27	How do electrophysiological measures in infants relate to the brain structural maturation?. <i>Neurophysiologie Clinique</i> , 2017, 47, 186.	2.2	4
28	Tracking Adult Literacy Acquisition With Functional <scp>MRI</scp>: A Singleâ€Case Study. <i>Mind, Brain, and Education</i> , 2017, 11, 121-132.	1.9	14
29	Regional study of the genetic influence on the sulcal pits. , 2017, , .		0
30	Numerical abilities of school-age children with Developmental Coordination Disorder (DCD): A behavioral and eye-tracking study. <i>Human Movement Science</i> , 2017, 55, 315-326.	1.4	25
31	Ambiguous function words do not prevent 18-month-olds from building accurate syntactic category expectations: An ERP study. <i>Neuropsychologia</i> , 2017, 98, 4-12.	1.6	18
32	Electrophysiological and hemodynamic mismatch responses in rats listening to human speech syllables. <i>PLoS ONE</i> , 2017, 12, e0173801.	2.5	9
33	MRI and M/EEG studies of the White Matter Development in Human Fetuses and Infants: Review and Opinion. <i>Brain Plasticity</i> , 2016, 2, 49-69.	3.5	30
34	A New Strategy for Fast MRI-Based Quantification of the Myelin Water Fraction: Application to Brain Imaging in Infants. <i>PLoS ONE</i> , 2016, 11, e0163143.	2.5	14
35	ERP evidence for on-line syntactic computations in 2-year-olds. <i>Developmental Cognitive Neuroscience</i> , 2016, 19, 164-173.	4.0	18
36	Is the brain prewired for letters?. <i>Nature Neuroscience</i> , 2016, 19, 1192-1193.	14.8	36

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37	A neural window on the emergence of cognition. <i>Annals of the New York Academy of Sciences</i> , 2016, 1369, 7-23.	3.8	15
38	Electrophysiological evidence of phonetic normalization across coarticulation in infants. <i>Developmental Science</i> , 2016, 19, 710-722.	2.4	12
39	Exploring the Early Organization and Maturation of Linguistic Pathways in the Human Infant Brain. <i>Cerebral Cortex</i> , 2016, 26, 2283-2298.	2.9	125
40	Intraventricular hemorrhage consequences on cerebral neurovascular coupling in premature infants, A multimodal neuroimaging EEG-fNIRS approach. , 2016, , .		0
41	New human-specific brain landmark: The depth asymmetry of superior temporal sulcus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1208-1213.	7.1	157
42	Multi-parametric evaluation of the white matter maturation. <i>Brain Structure and Function</i> , 2015, 220, 3657-3672.	2.3	60
43	Mathematical difficulties in developmental coordination disorder: Symbolic and nonsymbolic number processing. <i>Research in Developmental Disabilities</i> , 2015, 43-44, 167-178.	2.2	48
44	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. <i>Trends in Cognitive Sciences</i> , 2015, 19, 374-382.	7.8	180
45	The Infancy of the Human Brain. <i>Neuron</i> , 2015, 88, 93-109.	8.1	207
46	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.	1.6	8
47	Electrophysiological evidence of statistical learning of long-distance dependencies in 8-month-old preterm and full-term infants. <i>Brain and Language</i> , 2015, 148, 25-36.	1.6	69
48	Organising white matter in a brain without corpus callosum fibres. <i>Cortex</i> , 2015, 63, 155-171.	2.4	46
49	Genetic and Environmental Influences on the Visual Word Form and Fusiform Face Areas. <i>Cerebral Cortex</i> , 2015, 25, 2478-2493.	2.9	54
50	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.	7.1	82
51	The early development of brain white matter: A review of imaging studies in fetuses, newborns and infants. <i>Neuroscience</i> , 2014, 276, 48-71.	2.3	624
52	Correction strategy for diffusion-weighted images corrupted with motion: application to the DTI evaluation of infants' white matter. <i>Magnetic Resonance Imaging</i> , 2014, 32, 981-992.	1.8	34
53	Interoperable atlases of the human brain. <i>NeuroImage</i> , 2014, 99, 525-532.	4.2	78
54	Gaze Following Is Accelerated in Healthy Preterm Infants. <i>Psychological Science</i> , 2014, 25, 1884-1892.	3.3	31

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55	A hierarchy of cortical responses to sequence violations in three-month-old infants. <i>Cognition</i> , 2014, 132, 137-150.	2.2	84
56	Anatomical correlations of the international 10â€“20 sensor placement system in infants. <i>NeuroImage</i> , 2014, 99, 342-356.	4.2	92
57	Planum temporale asymmetry in developmental dyslexia: Revisiting an old question. <i>Human Brain Mapping</i> , 2014, 35, 5717-5735.	3.6	119
58	How reading acquisition changes childrenâ€™s spoken language network. <i>Brain and Language</i> , 2013, 127, 356-365.	1.6	73
59	Syllabic discrimination in premature human infants prior to complete formation of cortical layers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4846-4851.	7.1	298
60	A Neural Marker of Perceptual Consciousness in Infants. <i>Science</i> , 2013, 340, 376-380.	12.6	141
61	A Functionally Guided Approach to the Morphometry of Occipitotemporal Regions in Developmental Dyslexia: Evidence for Differential Effects in Boys and Girls. <i>Journal of Neuroscience</i> , 2013, 33, 11296-11301.	3.6	57
62	Earlier Speech Exposure Does Not Accelerate Speech Acquisition. <i>Journal of Neuroscience</i> , 2012, 32, 11159-11163.	3.6	126
63	Cortical networks for vision and language in dyslexic and normal children of variable socio-economic status. <i>NeuroImage</i> , 2012, 61, 258-274.	4.2	144
64	A Temporal Bottleneck in the Language Comprehension Network. <i>Journal of Neuroscience</i> , 2012, 32, 9089-9102.	3.6	88
65	The Influence of Socioeconomic Status on Childrenâ€™s Brain Structure. <i>PLoS ONE</i> , 2012, 7, e42486.	2.5	235
66	Realistic Head Model Design and 3D Brain Imaging of NIRS Signals Using Audio Stimuli on Preterm Neonates for Intra-Ventricular Hemorrhage Diagnosis. <i>Lecture Notes in Computer Science</i> , 2012, 15, 172-179.	1.3	2
67	A robust cerebral asymmetry in the infant brain: The rightward superior temporal sulcus. <i>NeuroImage</i> , 2011, 58, 716-723.	4.2	105
68	Atlas-Free Surface Reconstruction of the Cortical Grey-White Interface in Infants. <i>PLoS ONE</i> , 2011, 6, e27128.	2.5	49
69	Early Maturation of the Linguistic Dorsal Pathway in Human Infants. <i>Journal of Neuroscience</i> , 2011, 31, 1500-1506.	3.6	149
70	Language or music, mother or Mozart? Structural and environmental influences on infantsâ€™ language networks. <i>Brain and Language</i> , 2010, 114, 53-65.	1.6	185
71	Two-year-olds compute syntactic structure online. <i>Developmental Science</i> , 2010, 13, 69-76.	2.4	42
72	How Learning to Read Changes the Cortical Networks for Vision and Language. <i>Science</i> , 2010, 330, 1359-1364.	12.6	1,030

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73	Structural Asymmetries in the Infant Language and Sensori-Motor Networks. <i>Cerebral Cortex</i> , 2009, 19, 414-423.	2.9	233
74	Investigating the neural correlates of continuous speech computation with frequency-tagged neuroelectric responses. <i>NeuroImage</i> , 2009, 44, 509-519.	4.2	121
75	Asynchrony of the early maturation of white matter bundles in healthy infants: Quantitative landmarks revealed noninvasively by diffusion tensor imaging. <i>Human Brain Mapping</i> , 2008, 29, 14-27.	3.6	340
76	A fully Bayesian approach to the parcel-based detection-estimation of brain activity in fMRI. <i>NeuroImage</i> , 2008, 41, 941-969.	4.2	76
77	Microstructural Correlates of Infant Functional Development: Example of the Visual Pathways. <i>Journal of Neuroscience</i> , 2008, 28, 1943-1948.	3.6	107
78	Distinct Cerebral Pathways for Object Identity and Number in Human Infants. <i>PLoS Biology</i> , 2008, 6, e11.	5.6	190
79	Hearing Faces: How the Infant Brain Matches the Face It Sees with the Speech It Hears. <i>Journal of Cognitive Neuroscience</i> , 2008, 21, 905-921.	2.3	125
80	Development of a view-invariant representation of the human head. <i>Cognition</i> , 2007, 102, 261-288.	2.2	51
81	Perceptual constraints and the learnability of simple grammars. <i>Cognition</i> , 2007, 105, 577-614.	2.2	79
82	Moving along the number line: Operational momentum in nonsymbolic arithmetic. <i>Perception & Psychophysics</i> , 2007, 69, 1324-1333.	2.3	198
83	Assessment of the early organization and maturation of infants' cerebral white matter fiber bundles: A feasibility study using quantitative diffusion tensor imaging and tractography. <i>NeuroImage</i> , 2006, 30, 1121-1132.	4.2	300
84	Nature and nurture in language acquisition: anatomical and functional brain-imaging studies in infants. <i>Trends in Neurosciences</i> , 2006, 29, 367-373.	8.6	150
85	Functional segregation of cortical language areas by sentence repetition. <i>Human Brain Mapping</i> , 2006, 27, 360-371.	3.6	132
86	Combined permutation test and mixed-effect model for group average analysis in fMRI. <i>Human Brain Mapping</i> , 2006, 27, 402-410.	3.6	37
87	Functional organization of perisylvian activation during presentation of sentences in preverbal infants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14240-14245.	7.1	323
88	Structural Encoding of Body and Face in Human Infants and Adults. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 1328-1340.	2.3	131
89	Neural correlates of switching from auditory to speech perception. <i>NeuroImage</i> , 2005, 24, 21-33.	4.2	235
90	Common Neural Basis for Phoneme Processing in Infants and Adults. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 1375-1387.	2.3	97

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91	Phoneme perception in a neonate with a left sylvian infarct. <i>Brain and Language</i> , 2004, 88, 26-38.	1.6	24
92	Sounds and silence: An optical topography study of language recognition at birth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11702-11705.	7.1	644
93	Functional Neuroimaging of Speech Perception in Infants. <i>Science</i> , 2002, 298, 2013-2015.	12.6	954
94	Spontaneous number discrimination of multi-format auditory stimuli in cotton-top tamarins (<i>Saguinus oedipus</i>). <i>Cognition</i> , 2002, 86, B23-B32.	2.2	48
95	Electrophysiological evidence for automatic phonetic processing in neonates. <i>NeuroReport</i> , 2001, 12, 3155-3158.	1.2	176
96	Cerebral Specialization for Speech and Non-Speech Stimuli in Infants. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 449-460.	2.3	172
97	Electrophysiological Correlates of Phonological Processing: A Cross-linguistic Study. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 635-647.	2.3	182
98	The visual word form area. <i>Brain</i> , 2000, 123, 291-307.	7.6	1,744
99	Chapitre 3. Bases cérébrales de l'acquisition du langage. , 2000, , 61-93.		3
100	Imaging unconscious semantic priming. <i>Nature</i> , 1998, 395, 597-600.	27.8	1,100
101	Abstract representations of numbers in the animal and human brain. <i>Trends in Neurosciences</i> , 1998, 21, 355-361.	8.6	777
102	Faster Orientation Latencies Toward Native Language in Two-Month-Old Infants. <i>Language and Speech</i> , 1998, 41, 21-43.	1.1	61
103	A phonological representation in the infant brain. <i>NeuroReport</i> , 1998, 9, 1885-1888.	1.2	227
104	Electrophysiological correlates of categorical phoneme perception in adults. <i>NeuroReport</i> , 1997, 8, 919-924.	1.2	300
105	In defense of learning by selection: Neurobiological and behavioral evidence revisited. <i>Behavioral and Brain Sciences</i> , 1997, 20, 560-561.	0.7	10
106	Speed and cerebral correlates of syllable discrimination in infants. <i>Nature</i> , 1994, 370, 292-295.	27.8	364
107	Cross-linguistic approaches to speech processing. <i>Current Opinion in Neurobiology</i> , 1994, 4, 171-176.	4.2	15
108	A precursor of language acquisition in young infants. <i>Cognition</i> , 1988, 29, 143-178.	2.2	1,279