

Angela D Friederici

List of Publications by Year in descending order

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Version: 2024-02-01

144
papers

12,926
citations

36203

51
h-index

27345

106
g-index

150
all docs

150
docs citations

150
times ranked

8741
citing authors

#	ARTICLE	IF	CITATIONS
1	The Brain Basis of Language Processing: From Structure to Function. <i>Physiological Reviews</i> , 2011, 91, 1357-1392.	13.1	1,328
2	Musical syntax is processed in Broca's area: an MEG study. <i>Nature Neuroscience</i> , 2001, 4, 540-545.	7.1	820
3	The cortical language circuit: from auditory perception to sentence comprehension. <i>Trends in Cognitive Sciences</i> , 2012, 16, 262-268.	4.0	622
4	The brain differentiates human and non-human grammars: Functional localization and structural connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2458-2463.	3.3	572
5	The language network. <i>Current Opinion in Neurobiology</i> , 2013, 23, 250-254.	2.0	488
6	Bach Speaks: A Cortical "Language-Network" Serves the Processing of Music. <i>NeuroImage</i> , 2002, 17, 956-966.	2.1	445
7	Evolution, brain, and the nature of language. <i>Trends in Cognitive Sciences</i> , 2013, 17, 89-98.	4.0	414
8	Neural language networks at birth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16056-16061.	3.3	398
9	Lateralization of auditory language functions: A dynamic dual pathway model. <i>Brain and Language</i> , 2004, 89, 267-276.	0.8	346
10	fMRI reveals brain regions mediating slow prosodic modulations in spoken sentences. <i>Human Brain Mapping</i> , 2002, 17, 73-88.	1.9	307
11	Segregating the core computational faculty of human language from working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8362-8367.	3.3	307
12	Broca's Region: Novel Organizational Principles and Multiple Receptor Mapping. <i>PLoS Biology</i> , 2010, 8, e1000489.	2.6	304
13	The ontogeny of the cortical language network. <i>Nature Reviews Neuroscience</i> , 2016, 17, 323-332.	4.9	244
14	Interactions of the hippocampal system and the prefrontal cortex in learning language-like rules. <i>NeuroImage</i> , 2003, 19, 1730-1737.	2.1	207
15	Brain activity varies with modulation of dynamic pitch variance in sentence melody. <i>Brain and Language</i> , 2004, 89, 277-289.	0.8	204
16	Language, mind and brain. <i>Nature Human Behaviour</i> , 2017, 1, 713-722.	6.2	199
17	Brain Signatures of Syntactic and Semantic Processes during Children's Language Development. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 1302-1318.	1.1	178
18	Bach speaks: a cortical "language-network" serves the processing of music. <i>NeuroImage</i> , 2002, 17, 956-66.	2.1	143

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19	Generalization of word meanings during infant sleep. <i>Nature Communications</i> , 2015, 6, 6004.	5.8	141
20	Brain Functional and Structural Predictors of Language Performance. <i>Cerebral Cortex</i> , 2016, 26, 2127-2139.	1.6	138
21	The language skeleton after dissecting meaning: A functional segregation within Broca's Area. <i>NeuroImage</i> , 2015, 114, 294-302.	2.1	137
22	Processing local transitions versus long-distance syntactic hierarchies. <i>Trends in Cognitive Sciences</i> , 2004, 8, 245-247.	4.0	134
23	Syntactic comprehension in Parkinson's disease: Investigating early automatic and late integrational processes using event-related brain potentials.. <i>Neuropsychology</i> , 2003, 17, 133-142.	1.0	127
24	Brain Correlates of Language Learning: The Neuronal Dissociation of Rule-Based versus Similarity-Based Learning. <i>Journal of Neuroscience</i> , 2004, 24, 8436-8440.	1.7	119
25	Role of the Corpus Callosum in Speech Comprehension: Interfacing Syntax and Prosody. <i>Neuron</i> , 2007, 53, 135-145.	3.8	115
26	Merge in the Human Brain: A Sub-Region Based Functional Investigation in the Left Pars Opercularis. <i>Frontiers in Psychology</i> , 2015, 6, 1818.	1.1	111
27	Grounding language processing on basic neurophysiological principles. <i>Trends in Cognitive Sciences</i> , 2015, 19, 329-338.	4.0	110
28	Auditory perception at the root of language learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15953-15958.	3.3	109
29	Maturation of the Language Network: From Inter- to Intrahemispheric Connectivities. <i>PLoS ONE</i> , 2011, 6, e20726.	1.1	107
30	Event-related brain potential studies in language. <i>Current Neurology and Neuroscience Reports</i> , 2004, 4, 466-470.	2.0	103
31	Frequency of Maternal Touch Predicts Resting Activity and Connectivity of the Developing Social Brain. <i>Cerebral Cortex</i> , 2016, 26, 3544-3552.	1.6	102
32	Linguistic Bias Modulates Interpretation of Speech via Neural Delta-Band Oscillations. <i>Cerebral Cortex</i> , 2017, 27, 4293-4302.	1.6	90
33	Electric brain responses reveal gender differences in music processing. <i>NeuroReport</i> , 2003, 14, 709-713.	0.6	89
34	White-matter pathways for speech and language processing. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2015, 129, 177-186.	1.0	86
35	Differential cortical contribution of syntax and semantics: An fMRI study on two-word phrasal processing. <i>Cortex</i> , 2017, 96, 105-120.	1.1	85
36	Reviewing the functional basis of the syntactic Merge mechanism for language: A coordinate-based activation likelihood estimation meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 80, 646-656.	2.9	84

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37	Syntax gradually segregates from semantics in the developing brain. <i>NeuroImage</i> , 2014, 100, 106-111.	2.1	80
38	Building by Syntax: The Neural Basis of Minimal Linguistic Structures. <i>Cerebral Cortex</i> , 2017, 27, bhv234.	1.6	80
39	White matter maturation is associated with the emergence of Theory of Mind in early childhood. <i>Nature Communications</i> , 2017, 8, 14692.	5.8	79
40	Frontal–posterior theta oscillations reflect memory retrieval during sentence comprehension. <i>Cortex</i> , 2015, 71, 205-218.	1.1	78
41	Implicit and explicit false belief development in preschool children. <i>Developmental Science</i> , 2017, 20, e12445.	1.3	78
42	Structural connectivity of right frontal hyperactive areas scales with stuttering severity. <i>Brain</i> , 2018, 141, 191-204.	3.7	76
43	Hierarchical functional connectivity between the core language system and the working memory system. <i>Cortex</i> , 2013, 49, 2416-2423.	1.1	73
44	Evolution of the neural language network. <i>Psychonomic Bulletin and Review</i> , 2017, 24, 41-47.	1.4	73
45	Perception of Words and Pitch Patterns in Song and Speech. <i>Frontiers in Psychology</i> , 2012, 3, 76.	1.1	71
46	Prosody meets syntax: the role of the corpus callosum. <i>Brain</i> , 2010, 133, 2643-2655.	3.7	66
47	Common molecular basis of the sentence comprehension network revealed by neurotransmitter receptor fingerprints. <i>Cortex</i> , 2015, 63, 79-89.	1.1	64
48	Broca's Area and the Ventral Premotor Cortex in Language: Functional Differentiation and Specificity. <i>Cortex</i> , 2006, 42, 472-475.	1.1	61
49	Precursors to Natural Grammar Learning: Preliminary Evidence from 4-Month-Old Infants. <i>PLoS ONE</i> , 2011, 6, e17920.	1.1	60
50	Left posterior-dorsal area 44 couples with parietal areas to promote speech fluency, while right area 44 activity promotes the stopping of motor responses. <i>NeuroImage</i> , 2016, 142, 628-644.	2.1	60
51	The topographical organization of motor processing: An ALE meta-analysis on six action domains and the relevance of Broca's region. <i>NeuroImage</i> , 2020, 206, 116321.	2.1	60
52	Conscious auditory perception related to long-range synchrony of gamma oscillations. <i>NeuroImage</i> , 2014, 100, 435-443.	2.1	56
53	The right inferior frontal gyrus processes nested non-local dependencies in music. <i>Scientific Reports</i> , 2018, 8, 3822.	1.6	54
54	Primate auditory prototype in the evolution of the arcuate fasciculus. <i>Nature Neuroscience</i> , 2020, 23, 611-614.	7.1	53

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55	Functional Network Mirrored in the Prefrontal Cortex, Caudate Nucleus, and Thalamus: High-Resolution Functional Imaging and Structural Connectivity. <i>Journal of Neuroscience</i> , 2014, 34, 9202-9212.	1.7	52
56	Longitudinal changes in resting-state fMRI from age 5 to age 6 years covary with language development. <i>NeuroImage</i> , 2016, 128, 116-124.	2.1	51
57	Oscillatory EEG dynamics underlying automatic chunking during sentence processing. <i>NeuroImage</i> , 2017, 152, 647-657.	2.1	51
58	Sex hormones in early infancy seem to predict aspects of later language development. <i>Brain and Language</i> , 2015, 141, 70-76.	0.8	50
59	Language Development and the Ontogeny of the Dorsal Pathway. <i>Frontiers in Evolutionary Neuroscience</i> , 2012, 4, 3.	3.7	49
60	Hemispheric lateralization of linguistic prosody recognition in comparison to speech and speaker recognition. <i>NeuroImage</i> , 2014, 102, 332-344.	2.1	48
61	Prediction Signatures in the Brain: Semantic Pre-Activation during Language Comprehension. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 591.	1.0	48
62	The Sleeping Infant Brain Anticipates Development. <i>Current Biology</i> , 2017, 27, 2374-2380.e3.	1.8	47
63	Mathematical Logic in the Human Brain: Syntax. <i>PLoS ONE</i> , 2009, 4, e5599.	1.1	47
64	Degree of automaticity and the prefrontal cortex. <i>Trends in Cognitive Sciences</i> , 2015, 19, 244-250.	4.0	43
65	The emergence of dyslexia in the developing brain. <i>NeuroImage</i> , 2020, 211, 116633.	2.1	43
66	Predicting early signs of dyslexia at a preliterate age by combining behavioral assessment with structural MRI. <i>NeuroImage</i> , 2016, 143, 378-386.	2.1	41
67	Longitudinal evidence for 4-year-olds'™ but not 2- and 3-year-olds'™ false belief-related action anticipation. <i>Cognitive Development</i> , 2018, 46, 58-68.	0.7	41
68	The Concurrence of Cortical Surface Area Expansion and White Matter Myelination in Human Brain Development. <i>Cerebral Cortex</i> , 2019, 29, 827-837.	1.6	41
69	Genetic dyslexia risk variant is related to neural connectivity patterns underlying phonological awareness in children. <i>NeuroImage</i> , 2015, 118, 414-421.	2.1	40
70	Left posterior inferior frontal gyrus is causally involved in reordering during sentence processing. <i>NeuroImage</i> , 2017, 148, 254-263.	2.1	40
71	Syntactic learning by mere exposure - An ERP study in adult learners. <i>BMC Neuroscience</i> , 2009, 10, 89.	0.8	39
72	Reflections of word processing in the insular cortex: A sub-regional parcellation based functional assessment. <i>Brain and Language</i> , 2015, 142, 1-7.	0.8	39

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73	Evolutionary origins of non-adjacent sequence processing in primate brain potentials. <i>Scientific Reports</i> , 2016, 6, 36259.	1.6	39
74	Hierarchy processing in human neurobiology: how specific is it?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20180391.	1.8	39
75	Sentence processing and verbal working memory in a white-matter-disconnection patient. <i>Neuropsychologia</i> , 2014, 61, 190-196.	0.7	38
76	<i>NRSN1</i> associated grey matter volume of the visual word form area reveals dyslexia before school. <i>Brain</i> , 2016, 139, 2792-2803.	3.7	38
77	The origins of word learning: Brain responses of 3â€month-olds indicate their rapid association of objects and words. <i>Developmental Science</i> , 2017, 20, e12357.	1.3	38
78	Two systems for thinking about othersâ€™ thoughts in the developing brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6928-6935.	3.3	38
79	Dyslexia risk gene relates to representation of sound in the auditory brainstem. <i>Developmental Cognitive Neuroscience</i> , 2017, 24, 63-71.	1.9	37
80	Functional neuroanatomy of language without speech: An ALE meta-analysis of sign language. <i>Human Brain Mapping</i> , 2021, 42, 699-712.	1.9	36
81	Processing Prosodic Boundaries in Natural and Hummed Speech: An fMRI Study. <i>Cerebral Cortex</i> , 2008, 18, 541-552.	1.6	35
82	A meta-analysis of fMRI studies of language comprehension in children. <i>NeuroImage</i> , 2020, 215, 116858.	2.1	35
83	Present and past: Can writing abilities in school children be associated with their auditory discrimination capacities in infancy?. <i>Research in Developmental Disabilities</i> , 2015, 47, 318-333.	1.2	34
84	Preschoolers' brains rely on semantic cues prior to the mastery of syntax during sentence comprehension. <i>NeuroImage</i> , 2016, 126, 256-266.	2.1	33
85	Development of a selective left-hemispheric fronto-temporal network for processing syntactic complexity in language comprehension. <i>Neuropsychologia</i> , 2016, 83, 274-282.	0.7	32
86	Chimpanzees produce diverse vocal sequences with ordered and recombinatorial properties. <i>Communications Biology</i> , 2022, 5, 410.	2.0	32
87	The Role of Pause Cues in Language Learning: The Emergence of Event-related Potentials Related to Sequence Processing. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 892-905.	1.1	30
88	Language Learning without Control: The Role of the PFC. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 814-821.	1.1	28
89	Intonation guides sentence processing in the left inferior frontal gyrus. <i>Cortex</i> , 2019, 117, 122-134.	1.1	28
90	The reciprocal relation between sleep and memory in infancy: Memory-dependent adjustment of sleep spindles and spindle-dependent improvement of memories. <i>Developmental Science</i> , 2019, 22, e12743.	1.3	28

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91	Neural correlates of music-syntactic processing in two-year old children. <i>Developmental Cognitive Neuroscience</i> , 2014, 9, 200-208.	1.9	27
92	Sleep-dependent memory consolidation in infants protects new episodic memories from existing semantic memories. <i>Nature Communications</i> , 2020, 11, 1298.	5.8	27
93	Alignment of alpha-band desynchronization with syntactic structure predicts successful sentence comprehension. <i>NeuroImage</i> , 2018, 175, 286-296.	2.1	26
94	Universal neural basis of structure building evidenced by network modulations emerging from Broca's area: The case of Chinese. <i>Human Brain Mapping</i> , 2019, 40, 1705-1717.	1.9	26
95	Word learning reveals white matter plasticity in preschool children. <i>Brain Structure and Function</i> , 2020, 225, 607-619.	1.2	25
96	Increased sensitivity and signal-to-noise ratio in diffusion-weighted MRI using multi-echo acquisitions. <i>NeuroImage</i> , 2020, 221, 117172.	2.1	24
97	Working-memory endophenotype and dyslexia-associated genetic variant predict dyslexia phenotype. <i>Cortex</i> , 2015, 71, 291-305.	1.1	23
98	Development of the Intrinsic Language Network in Preschool Children from Ages 3 to 5 Years. <i>PLoS ONE</i> , 2016, 11, e0165802.	1.1	23
99	How the brain attunes to sentence processing: Relating behavior, structure, and function. <i>NeuroImage</i> , 2016, 129, 268-278.	2.1	23
100	Cortical thickness lateralization and its relation to language abilities in children. <i>Developmental Cognitive Neuroscience</i> , 2019, 39, 100704.	1.9	23
101	Contributions of left frontal and temporal cortex to sentence comprehension: Evidence from simultaneous TMS-EEG. <i>Cortex</i> , 2019, 115, 86-98.	1.1	23
102	Mass counts: ERP correlates of non-adjacent dependency learning under different exposure conditions. <i>Neuroscience Letters</i> , 2011, 487, 282-286.	1.0	21
103	Neural correlates of intonation and lexical tone in tonal and non-tonal language speakers. <i>Human Brain Mapping</i> , 2020, 41, 1842-1858.	1.9	21
104	Cortical differences in preliterate children at familiar risk of dyslexia are similar to those observed in dyslexic readers. <i>Brain</i> , 2015, 138, e378-e378.	3.7	19
105	The emergence of long-range language network structural covariance and language abilities. <i>NeuroImage</i> , 2019, 191, 36-48.	2.1	19
106	An fMRI study dissociating distance measures computed by Broca's area in movement processing: clause boundary vs. identity. <i>Frontiers in Psychology</i> , 2015, 6, 654.	1.1	18
107	Oscillatory dynamics of cortical functional connections in semantic prediction. <i>Human Brain Mapping</i> , 2019, 40, 1856-1866.	1.9	18
108	The development of the intrinsic functional connectivity of default network subsystems from age 3 to 5. <i>Brain Imaging and Behavior</i> , 2016, 10, 50-59.	1.1	17

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109	Language Without Speech: Segregating Distinct Circuits in the Human Brain. <i>Cerebral Cortex</i> , 2020, 30, 812-823.	1.6	17
110	Hierarchical syntactic processing is beyond mere associating: Functional magnetic resonance imaging evidence from a novel artificial grammar. <i>Human Brain Mapping</i> , 2021, 42, 3253-3268.	1.9	17
111	Brain structural correlates of complex sentence comprehension in children. <i>Developmental Cognitive Neuroscience</i> , 2015, 15, 48-57.	1.9	16
112	Hypermyelination of the left auditory cortex in developmental dyslexia. <i>Neurology</i> , 2018, 90, e492-e497.	1.5	16
113	A new computational approach to estimate whole-brain effective connectivity from functional and structural MRI, applied to language development. <i>Scientific Reports</i> , 2019, 9, 8479.	1.6	16
114	What Does "Being an Expert" Mean to the Brain? Functional Specificity and Connectivity in Expertise. <i>Cerebral Cortex</i> , 2017, 27, 5603-5615.	1.6	14
115	Neural correlates of prosodic boundary perception in German preschoolers: If pause is present, pitch can go. <i>Brain Research</i> , 2016, 1632, 27-33.	1.1	14
116	Temporally and spatially distinct theta oscillations dissociate a language-specific from a domain-general processing mechanism across the age trajectory. <i>Scientific Reports</i> , 2017, 7, 11202.	1.6	14
117	Language and action in Broca's area: Computational differentiation and cortical segregation. <i>Brain and Cognition</i> , 2021, 147, 105651.	0.8	14
118	Different Hemispheric Roles in Recognition of Happy Expressions. <i>PLoS ONE</i> , 2014, 9, e88628.	1.1	13
119	Auditory brainstem responses to stop consonants predict literacy. <i>Clinical Neurophysiology</i> , 2017, 128, 484-494.	0.7	13
120	Functional organization of the language network in three- and six-year-old children. <i>Neuropsychologia</i> , 2017, 98, 24-33.	0.7	13
121	Young children's sentence comprehension: Neural correlates of syntax-semantic competition. <i>Brain and Cognition</i> , 2019, 134, 110-121.	0.8	13
122	Fronto-Parietal Contributions to Phonological Processes in Successful Artificial Grammar Learning. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 551.	1.0	12
123	Mathematical expertise modulates the architecture of dorsal and cortico-thalamic white matter tracts. <i>Scientific Reports</i> , 2019, 9, 6825.	1.6	12
124	Early cortical surface plasticity relates to basic mathematical learning. <i>NeuroImage</i> , 2020, 204, 116235.	2.1	12
125	Response to Bornkessel-Schlesewsky et al. "towards a nonhuman primate model of language?". <i>Trends in Cognitive Sciences</i> , 2015, 19, 483.	4.0	11
126	Linguistic and non-linguistic non-adjacent dependency learning in early development. <i>Developmental Cognitive Neuroscience</i> , 2020, 45, 100819.	1.9	11

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127	Dissociable contributions of frontal and temporal brain regions to basic semantic composition. <i>Brain Communications</i> , 2021, 3, fcab090.	1.5	11
128	Associated functional network development and language abilities in children. <i>NeuroImage</i> , 2021, 242, 118452.	2.1	11
129	Facial speech gestures: the relation between visual speech processing, phonological awareness, and developmental dyslexia in 10-year-olds. <i>Developmental Science</i> , 2016, 19, 1020-1034.	1.3	10
130	White matter pathways for prosodic structure building: A case study. <i>Brain and Language</i> , 2018, 183, 1-10.	0.8	10
131	Developmental changes in automatic rule-learning mechanisms across early childhood. <i>Developmental Science</i> , 2019, 22, e12700.	1.3	9
132	Intonation processing increases task-specific fronto-temporal connectivity in tonal language speakers. <i>Human Brain Mapping</i> , 2021, 42, 161-174.	1.9	8
133	Functional brain plasticity during L1 training on complex sentences: Changes in gamma-band oscillatory activity. <i>Human Brain Mapping</i> , 2021, 42, 3858-3870.	1.9	8
134	Auditory Discrimination Between Function Words in Children and Adults: A Mismatch Negativity Study. <i>Frontiers in Psychology</i> , 2015, 6, 1930.	1.1	7
135	Age Differences in Encoding-Related Alpha Power Reflect Sentence Comprehension Difficulties. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 183.	1.7	6
136	Auditory brainstem measures and genotyping boost the prediction of literacy: A longitudinal study on early markers of dyslexia. <i>Developmental Cognitive Neuroscience</i> , 2020, 46, 100869.	1.9	6
137	Processing inflectional morphology: ERP evidence for decomposition of complex words according to the affix structure. <i>Cortex</i> , 2019, 116, 143-153.	1.1	5
138	The dorsal pathways: A comment on Kronfeld-Duenias et al.. <i>Cortex</i> , 2017, 90, 166-168.	1.1	3
139	Pitch accents create dissociable syntactic and semantic expectations during sentence processing. <i>Cognition</i> , 2021, 212, 104702.	1.1	3
140	Bridging the Gap Between Neurons and Cognition Through Assemblies of Neurons. <i>Neural Computation</i> , 2022, 34, 291-306.	1.3	3
141	Classifying song and speech: effects of focal temporal lesions and musical disorder. <i>Neurocase</i> , 2016, 22, 496-504.	0.2	2
142	Seven-year-olds recall non-adjacent dependencies after overnight retention. <i>Neurobiology of Learning and Memory</i> , 2020, 171, 107225.	1.0	2
143	Gradual development of non-adjacent dependency learning during early childhood. <i>Developmental Cognitive Neuroscience</i> , 2021, 50, 100975.	1.9	1
144	Children's Learning of Non-adjacent Dependencies Using a Web-Based Computer Game Setting. <i>Frontiers in Psychology</i> , 2021, 12, 734877.	1.1	1