Angela D Friederici

List of Publications by Citations

145 papers	9,466 citations	47 h-index	95 g-index
149 ext. papers	11,365 ext. citations	6.7 avg, IF	7.02 L-index

#	Paper	IF	Citations
145	The brain basis of language processing: from structure to function. *Physiological Reviews*, **2011**, 91, 1357-92	17.9	960
144	Musical syntax is processed in Broca's area: an MEG study. *Nature Neuroscience*, **2001**, 4, 540-5	25.5	681
143	The brain differentiates human and non-human grammars: functional localization and structural connectivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 2458-63	11.5	462
142	The cortical language circuit: from auditory perception to sentence comprehension. *Trends in Cognitive Sciences*, **2012**, 16, 262-8	14	452
141	Bach Speaks: A Cortical Language-Network Serves the Processing of Music. *NeuroImage*, **2002**, 17, 956-966	7.9	385
140	The language network. *Current Opinion in Neurobiology*, **2013**, 23, 250-4	7.6	328
139	Neural language networks at birth. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16056-61	11.5	319
138	Evolution, brain, and the nature of language. *Trends in Cognitive Sciences*, **2013**, 17, 89-98	14	311
137	Lateralization of auditory language functions: a dynamic dual pathway model. *Brain and Language*, **2004**, 89, 267-76	2.9	278
136	FMRI reveals brain regions mediating slow prosodic modulations in spoken sentences. *Human Brain Mapping*, **2002**, 17, 73-88	5.9	273
135	Broca's region: novel organizational principles and multiple receptor mapping. *PLoS Biology*, **2010**, 8, e1000489	9.7	257
134	Segregating the core computational faculty of human language from working memory. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 8362-7	11.5	232
133	Interactions of the hippocampal system and the prefrontal cortex in learning language-like rules. *NeuroImage*, **2003**, 19, 1730-7	7.9	183
132	Brain activity varies with modulation of dynamic pitch variance in sentence melody. *Brain and Language*, **2004**, 89, 277-89	2.9	154
131	The ontogeny of the cortical language network. *Nature Reviews Neuroscience*, **2016**, 17, 323-32	13.5	154
130	Brain signatures of syntactic and semantic processes during children's language development. *Journal of Cognitive Neuroscience*, **2004**, 16, 1302-18	3.1	140
129	Bach speaks: a cortical "language-network" serves the processing of music. *NeuroImage*, **2002**, 17, 956-66	7.9	119

128	Generalization of word meanings during infant sleep. *Nature Communications*, **2015**, 6, 6004	17.4	118
127	Syntactic comprehension in Parkinson's disease: Investigating early automatic and late integrational processes using event-related brain potentials.. *Neuropsychology*, **2003**, 17, 133-142	3.8	112
126	Brain correlates of language learning: the neuronal dissociation of rule-based versus similarity-based learning. *Journal of Neuroscience*, **2004**, 24, 8436-40	6.6	105
125	Language, mind and brain. *Nature Human Behaviour*, **2017**, 1, 713-722	12.8	104
124	Processing local transitions versus long-distance syntactic hierarchies. *Trends in Cognitive Sciences*, **2004**, 8, 245-7	14	99
123	Brain Functional and Structural Predictors of Language Performance. *Cerebral Cortex*, **2016**, 26, 2127-39	5.1	89
122	The language skeleton after dissecting meaning: A functional segregation within Broca's Area. *NeuroImage*, **2015**, 114, 294-302	7.9	89
121	Maturation of the language network: from inter- to intrahemispheric connectivities. *PLoS ONE*, **2011**, 6, e20726	3.7	89
120	Event-related brain potential studies in language. *Current Neurology and Neuroscience Reports*, **2004**, 4, 466-70	6.6	89
119	Grounding language processing on basic neurophysiological principles. *Trends in Cognitive Sciences*, **2015**, 19, 329-38	14	87
118	Auditory perception at the root of language learning. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 15953-8	11.5	82
117	Frequency of Maternal Touch Predicts Resting Activity and Connectivity of the Developing Social Brain. *Cerebral Cortex*, **2016**, 26, 3544-52	5.1	81
116	Role of the corpus callosum in speech comprehension: interfacing syntax and prosody. *Neuron*, **2007**, 53, 135-45	13.9	70
115	Electric brain responses reveal gender differences in music processing. *NeuroReport*, **2003**, 14, 709-13	1.7	70
114	Merge in the Human Brain: A Sub-Region Based Functional Investigation in the Left Pars Opercularis. *Frontiers in Psychology*, **2015**, 6, 1818	3.4	65
113	White matter maturation is associated with the emergence of Theory of Mind in early childhood. *Nature Communications*, **2017**, 8, 14692	17.4	59
112	Syntax gradually segregates from semantics in the developing brain. *NeuroImage*, **2014**, 100, 106-11	7.9	57
111	Implicit and explicit false belief development in preschool children. *Developmental Science*, **2017**, 20, e12445	4.5	54

110	Prosody meets syntax: the role of the corpus callosum. *Brain*, **2010**, 133, 2643-55	11.2	53
109	Frontal-posterior theta oscillations reflect memory retrieval during sentence comprehension. *Cortex*, **2015**, 71, 205-18	3.8	52
108	Hierarchical functional connectivity between the core language system and the working memory system. *Cortex*, **2013**, 49, 2416-23	3.8	52
107	White-matter pathways for speech and language processing. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2015**, 129, 177-86	3	51
106	Evolution of the neural language network. *Psychonomic Bulletin and Review*, **2017**, 24, 41-47	4.1	50
105	Precursors to natural grammar learning: preliminary evidence from 4-month-old infants. *PLoS ONE*, **2011**, 6, e17920	3.7	50
104	Broca's area and the ventral premotor cortex in language: functional differentiation and specificity. *Cortex*, **2006**, 42, 472-5	3.8	50
103	Differential cortical contribution of syntax and semantics: An fMRI study on two-word phrasal processing. *Cortex*, **2017**, 96, 105-120	3.8	48
102	Common molecular basis of the sentence comprehension network revealed by neurotransmitter receptor fingerprints. *Cortex*, **2015**, 63, 79-89	3.8	48
101	Structural connectivity of right frontal hyperactive areas scales with stuttering severity. *Brain*, **2018**, 141, 191-204	11.2	48
100	Linguistic Bias Modulates Interpretation of Speech via Neural Delta-Band Oscillations. *Cerebral Cortex*, **2017**, 27, 4293-4302	5.1	48
99	Perception of words and pitch patterns in song and speech. *Frontiers in Psychology*, **2012**, 3, 76	3.4	48
98	Building by Syntax: The Neural Basis of Minimal Linguistic Structures. *Cerebral Cortex*, **2017**, 27, 411-421	5.1	46
97	Functional network mirrored in the prefrontal cortex, caudate nucleus, and thalamus: high-resolution functional imaging and structural connectivity. *Journal of Neuroscience*, **2014**, 34, 9202-12	6.6	44
96	Conscious auditory perception related to long-range synchrony of gamma oscillations. *NeuroImage*, **2014**, 100, 435-43	7.9	43
95	Reviewing the functional basis of the syntactic Merge mechanism for language: A coordinate-based activation likelihood estimation meta-analysis. *Neuroscience and Biobehavioral Reviews*, **2017**, 80, 646-656	9	41
94	Language development and the ontogeny of the dorsal pathway. *Frontiers in Evolutionary Neuroscience*, **2012**, 4, 3		40
93	The right inferior frontal gyrus processes nested non-local dependencies in music. *Scientific Reports*, **2018**, 8, 3822	4.9	39

92	Left posterior-dorsal area 44 couples with parietal areas to promote speech fluency, while right area 44 activity promotes the stopping of motor responses. *NeuroImage*, **2016**, 142, 628-644	7.9	38
91	Sex hormones in early infancy seem to predict aspects of later language development. *Brain and Language*, **2015**, 141, 70-6	2.9	36
90	Mathematical logic in the human brain: syntax. *PLoS ONE*, **2009**, 4, e5599	3.7	36
89	The Sleeping Infant Brain Anticipates Development. *Current Biology*, **2017**, 27, 2374-2380.e3	6.3	35
88	Longitudinal evidence for 4-year-olds' but not 2- and 3-year-olds' false belief-related action anticipation. *Cognitive Development*, **2018**, 46, 58-68	1.7	34
87	Longitudinal changes in resting-state fMRI from age 5 to age 6years covary with language development. *NeuroImage*, **2016**, 128, 116-124	7.9	34
86	Syntactic learning by mere exposure--an ERP study in adult learners. *BMC Neuroscience*, **2009**, 10, 89	3.2	34
85	Genetic dyslexia risk variant is related to neural connectivity patterns underlying phonological awareness in children. *NeuroImage*, **2015**, 118, 414-21	7.9	33
84	Evolutionary origins of non-adjacent sequence processing in primate brain potentials. *Scientific Reports*, **2016**, 6, 36259	4.9	33
83	Hemispheric lateralization of linguistic prosody recognition in comparison to speech and speaker recognition. *NeuroImage*, **2014**, 102 Pt 2, 332-44	7.9	33
82	Predicting early signs of dyslexia at a preliterate age by combining behavioral assessment with structural MRI. *NeuroImage*, **2016**, 143, 378-386	7.9	32
81	The origins of word learning: Brain responses of 3-month-olds indicate their rapid association of objects and words. *Developmental Science*, **2017**, 20, e12357	4.5	31
80	Processing prosodic boundaries in natural and hummed speech: an FMRI study. *Cerebral Cortex*, **2008**, 18, 541-52	5.1	31
79	Reflections of word processing in the insular cortex: a sub-regional parcellation based functional assessment. *Brain and Language*, **2015**, 142, 1-7	2.9	30
78	Oscillatory EEG dynamics underlying automatic chunking during sentence processing. *NeuroImage*, **2017**, 152, 647-657	7.9	28
77	Degree of automaticity and the prefrontal cortex. *Trends in Cognitive Sciences*, **2015**, 19, 244-50	14	28
76	NRSN1 associated grey matter volume of the visual word form area reveals dyslexia before school. *Brain*, **2016**, 139, 2792-2803	11.2	28
75	Primate auditory prototype in the evolution of the arcuate fasciculus. *Nature Neuroscience*, **2020**, 23, 611-614	25.5	28

74	Dyslexia risk gene relates to representation of sound in the auditory brainstem. *Developmental Cognitive Neuroscience*, **2017**, 24, 63-71	5.5	27
73	Present and past: Can writing abilities in school children be associated with their auditory discrimination capacities in infancy?. *Research in Developmental Disabilities*, **2015**, 47, 318-33	2.7	27
72	The role of pause cues in language learning: the emergence of event-related potentials related to sequence processing. *Journal of Cognitive Neuroscience*, **2008**, 20, 892-905	3.1	27
71	Prediction Signatures in the Brain: Semantic Pre-Activation during Language Comprehension. *Frontiers in Human Neuroscience*, **2016**, 10, 591	3.3	27
70	Development of a selective left-hemispheric fronto-temporal network for processing syntactic complexity in language comprehension. *Neuropsychologia*, **2016**, 83, 274-282	3.2	26
69	Sentence processing and verbal working memory in a white-matter-disconnection patient. *Neuropsychologia*, **2014**, 61, 190-6	3.2	26
68	Preschoolers' brains rely on semantic cues prior to the mastery of syntax during sentence comprehension. *NeuroImage*, **2016**, 126, 256-66	7.9	23
67	Left posterior inferior frontal gyrus is causally involved in reordering during sentence processing. *NeuroImage*, **2017**, 148, 254-263	7.9	22
66	Language learning without control: the role of the PFC. *Journal of Cognitive Neuroscience*, **2013**, 25, 814-21	3.1	22
65	Hierarchy processing in human neurobiology: how specific is it?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20180391	5.8	21
64	The emergence of dyslexia in the developing brain. *NeuroImage*, **2020**, 211, 116633	7.9	20
63	Working-memory endophenotype and dyslexia-associated genetic variant predict dyslexia phenotype. *Cortex*, **2015**, 71, 291-305	3.8	19
62	Neural correlates of music-syntactic processing in two-year old children. *Developmental Cognitive Neuroscience*, **2014**, 9, 200-8	5.5	19
61	Mass counts: ERP correlates of non-adjacent dependency learning under different exposure conditions. *Neuroscience Letters*, **2011**, 487, 282-6	3.3	18
60	The topographical organization of motor processing: An ALE meta-analysis on six action domains and the relevance of Broca's region. *NeuroImage*, **2020**, 206, 116321	7.9	18
59	Cortical differences in preliterate children at familiar risk of dyslexia are similar to those observed in dyslexic readers. *Brain*, **2015**, 138, e378	11.2	17
58	Alignment of alpha-band desynchronization with syntactic structure predicts successful sentence comprehension. *NeuroImage*, **2018**, 175, 286-296	7.9	16
57	Development of the Intrinsic Language Network in Preschool Children from Ages 3 to 5 Years. *PLoS ONE*, **2016**, 11, e0165802	3.7	16

56	The reciprocal relation between sleep and memory in infancy: Memory-dependent adjustment of sleep spindles and spindle-dependent improvement of memories. *Developmental Science*, **2019**, 22, e12743	4.5	16
55	The Concurrence of Cortical Surface Area Expansion and White Matter Myelination in Human Brain Development. *Cerebral Cortex*, **2019**, 29, 827-837	5.1	16
54	Sleep-dependent memory consolidation in infants protects new episodic memories from existing semantic memories. *Nature Communications*, **2020**, 11, 1298	17.4	15
53	Word learning reveals white matter plasticity in preschool children. *Brain Structure and Function*, **2020**, 225, 607-619	4	15
52	How the brain attunes to sentence processing: Relating behavior, structure, and function. *NeuroImage*, **2016**, 129, 268-278	7.9	15
51	A meta-analysis of fMRI studies of language comprehension in children. *NeuroImage*, **2020**, 215, 116858	7.9	15
50	The development of the intrinsic functional connectivity of default network subsystems from age 3 to 5. *Brain Imaging and Behavior*, **2016**, 10, 50-9	4.1	14
49	Intonation guides sentence processing in the left inferior frontal gyrus. *Cortex*, **2019**, 117, 122-134	3.8	14
48	The emergence of long-range language network structural covariance and language abilities. *NeuroImage*, **2019**, 191, 36-48	7.9	13
47	Two systems for thinking about others' thoughts in the developing brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 6928-6935	11.5	13
46	An fMRI study dissociating distance measures computed by Broca's area in movement processing: clause boundary vs. identity. *Frontiers in Psychology*, **2015**, 6, 654	3.4	13
45	A new computational approach to estimate whole-brain effective connectivity from functional and structural MRI, applied to language development. *Scientific Reports*, **2019**, 9, 8479	4.9	12
44	Temporally and spatially distinct theta oscillations dissociate a language-specific from a domain-general processing mechanism across the age trajectory. *Scientific Reports*, **2017**, 7, 11202	4.9	12
43	Functional organization of the language network in three- and six-year-old children. *Neuropsychologia*, **2017**, 98, 24-33	3.2	12
42	Neural correlates of prosodic boundary perception in German preschoolers: If pause is present, pitch can go. *Brain Research*, **2016**, 1632, 27-33	3.7	11
41	Language Without Speech: Segregating Distinct Circuits in the Human Brain. *Cerebral Cortex*, **2020**, 30, 812-823	5.1	11
40	Oscillatory dynamics of cortical functional connections in semantic prediction. *Human Brain Mapping*, **2019**, 40, 1856-1866	5.9	11
39	Functional neuroanatomy of language without speech: An ALE meta-analysis of sign language. *Human Brain Mapping*, **2021**, 42, 699-712	5.9	11

38	Auditory brainstem responses to stop consonants predict literacy. *Clinical Neurophysiology*, **2017**, 128, 484-494	4.3	10
37	Response to Bornkessel-Schlesewsky et al.--towards a nonhuman primate model of language?. *Trends in Cognitive Sciences*, **2015**, 19, 483	14	10
36	Different hemispheric roles in recognition of happy expressions. *PLoS ONE*, **2014**, 9, e88628	3.7	10
35	Facial speech gestures: the relation between visual speech processing, phonological awareness, and developmental dyslexia in 10-year-olds. *Developmental Science*, **2016**, 19, 1020-1034	4.5	10
34	Contributions of left frontal and temporal cortex to sentence comprehension: Evidence from simultaneous TMS-EEG. *Cortex*, **2019**, 115, 86-98	3.8	9
33	Young children's sentence comprehension: Neural correlates of syntax-semantic competition. *Brain and Cognition*, **2019**, 134, 110-121	2.7	9
32	Brain structural correlates of complex sentence comprehension in children. *Developmental Cognitive Neuroscience*, **2015**, 15, 48-57	5.5	9
31	Fronto-Parietal Contributions to Phonological Processes in Successful Artificial Grammar Learning. *Frontiers in Human Neuroscience*, **2016**, 10, 551	3.3	9
30	Universal neural basis of structure building evidenced by network modulations emerging from Broca's area: The case of Chinese. *Human Brain Mapping*, **2019**, 40, 1705-1717	5.9	9
29	Cortical thickness lateralization and its relation to language abilities in children. *Developmental Cognitive Neuroscience*, **2019**, 39, 100704	5.5	8
28	Linguistic and non-linguistic non-adjacent dependency learning in early development. *Developmental Cognitive Neuroscience*, **2020**, 45, 100819	5.5	8
27	Hypermyelination of the left auditory cortex in developmental dyslexia. *Neurology*, **2018**, 90, e492-e497	6.5	8
26	Increased sensitivity and signal-to-noise ratio in diffusion-weighted MRI using multi-echo acquisitions. *NeuroImage*, **2020**, 221, 117172	7.9	8
25	White matter pathways for prosodic structure building: A case study. *Brain and Language*, **2018**, 183, 1-10	2.9	8
24	Neural correlates of intonation and lexical tone in tonal and non-tonal language speakers. *Human Brain Mapping*, **2020**, 41, 1842-1858	5.9	7
23	What Does "Being an Expert" Mean to the Brain? Functional Specificity and Connectivity in Expertise. *Cerebral Cortex*, **2017**, 27, 5603-5615	5.1	7
22	Developmental changes in automatic rule-learning mechanisms across early childhood. *Developmental Science*, **2019**, 22, e12700	4.5	6
21	Auditory Discrimination Between Function Words in Children and Adults: A Mismatch Negativity Study. *Frontiers in Psychology*, **2015**, 6, 1930	3.4	6

20	Age Differences in Encoding-Related Alpha Power Reflect Sentence Comprehension Difficulties. *Frontiers in Aging Neuroscience*, **2019**, 11, 183	5.3	5
19	Early cortical surface plasticity relates to basic mathematical learning. *NeuroImage*, **2020**, 204, 116235	7.9	5
18	Mathematical expertise modulates the architecture of dorsal and cortico-thalamic white matter tracts. *Scientific Reports*, **2019**, 9, 6825	4.9	4
17	Hierarchical syntactic processing is beyond mere associating: Functional magnetic resonance imaging evidence from a novel artificial grammar. *Human Brain Mapping*, **2021**, 42, 3253-3268	5.9	4
16	Intonation processing increases task-specific fronto-temporal connectivity in tonal language speakers. *Human Brain Mapping*, **2021**, 42, 161-174	5.9	4
15	The dorsal pathways: A comment on Kronfeld-Duenias et al. *Cortex*, **2017**, 90, 166-168	3.8	3
14	Language and action in Broca's area: Computational differentiation and cortical segregation. *Brain and Cognition*, **2021**, 147, 105651	2.7	3
13	Auditory brainstem measures and genotyping boost the prediction of literacy: A longitudinal study on early markers of dyslexia. *Developmental Cognitive Neuroscience*, **2020**, 46, 100869	5.5	2
12	Dissociable contributions of frontal and temporal brain regions to basic semantic composition. *Brain Communications*, **2021**, 3, fcab090	4.5	2
11	Processing inflectional morphology: ERP evidence for decomposition of complex words according to the affix structure. *Cortex*, **2019**, 116, 143-153	3.8	2
10	Seven-year-olds recall non-adjacent dependencies after overnight retention. *Neurobiology of Learning and Memory*, **2020**, 171, 107225	3.1	2
9	Chimpanzees produce diverse vocal sequences with ordered and recombinatorial properties.. *Communications Biology*, **2022**, 5, 410	6.7	2
8	Classifying song and speech: effects of focal temporal lesions and musical disorder. *Neurocase*, **2016**, 22, 496-504	0.8	1
7	Gradual development of non-adjacent dependency learning during early childhood		1
6	Functional brain plasticity during L1 training on complex sentences: Changes in gamma-band oscillatory activity. *Human Brain Mapping*, **2021**, 42, 3858-3870	5.9	1
5	Pitch accents create dissociable syntactic and semantic expectations during sentence processing. *Cognition*, **2021**, 212, 104702	3.5	1
4	Bridging the Gap Between Neurons and Cognition Through Assemblies of Neurons.. *Neural Computation*, **2021**, 1-16	2.9	0
3	Children's Learning of Non-adjacent Dependencies Using a Web-Based Computer Game Setting. *Frontiers in Psychology*, **2021**, 12, 734877	3.4	0

2	Gradual development of non-adjacent dependency learning during early childhood. *Developmental Cognitive Neuroscience*, **2021**, 50, 100975	5.5	0
1	Associated functional network development and language abilities in children. *NeuroImage*, **2021**, 242, 118452	7.9	0