

# Angela D Friederici

## List of Publications by Year in descending order

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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	Bridging the Gap Between Neurons and Cognition Through Assemblies of Neurons. <i>Neural Computation</i> , 2022, 34, 291-306.	1.3	3
2	Chimpanzees produce diverse vocal sequences with ordered and recombinatorial properties. <i>Communications Biology</i> , 2022, 5, 410.	2.0	32
3	Language and action in Broca's area: Computational differentiation and cortical segregation. <i>Brain and Cognition</i> , 2021, 147, 105651.	0.8	14
4	Intonation processing increases task-specific fronto-temporal connectivity in tonal language speakers. <i>Human Brain Mapping</i> , 2021, 42, 161-174.	1.9	8
5	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
6	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
7	Dissociable contributions of frontal and temporal brain regions to basic semantic composition. <i>Brain Communications</i> , 2021, 3, fcab090.	1.5	11
8	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
9	Pitch accents create dissociable syntactic and semantic expectations during sentence processing. <i>Cognition</i> , 2021, 212, 104702.	1.1	3
10	Gradual development of non-adjacent dependency learning during early childhood. <i>Developmental Cognitive Neuroscience</i> , 2021, 50, 100975.	1.9	1
11	Associated functional network development and language abilities in children. <i>NeuroImage</i> , 2021, 242, 118452.	2.1	11
12	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
13	Language Without Speech: Segregating Distinct Circuits in the Human Brain. <i>Cerebral Cortex</i> , 2020, 30, 812-823.	1.6	17
14	Early cortical surface plasticity relates to basic mathematical learning. <i>NeuroImage</i> , 2020, 204, 116235.	2.1	12
15	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
16	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
17	Increased sensitivity and signal-to-noise ratio in diffusion-weighted MRI using multi-echo acquisitions. <i>NeuroImage</i> , 2020, 221, 117172.	2.1	24
18	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

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19	Two systems for thinking about othersâ€™ thoughts in the developing brain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6928-6935.	3.3	38
20	Sleep-dependent memory consolidation in infants protects new episodic memories from existing semantic memories. Nature Communications, 2020, 11, 1298.	5.8	27
21	Linguistic and non-linguistic non-adjacent dependency learning in early development. Developmental Cognitive Neuroscience, 2020, 45, 100819.	1.9	11
22	The emergence of dyslexia in the developing brain. NeuroImage, 2020, 211, 116633.	2.1	43
23	Word learning reveals white matter plasticity in preschool children. Brain Structure and Function, 2020, 225, 607-619.	1.2	25
24	Neural correlates of intonation and lexical tone in tonal and non-tonal language speakers. Human Brain Mapping, 2020, 41, 1842-1858.	1.9	21
25	A meta-analysis of fMRI studies of language comprehension in children. NeuroImage, 2020, 215, 116858.	2.1	35
26	Seven-year-olds recall non-adjacent dependencies after overnight retention. Neurobiology of Learning and Memory, 2020, 171, 107225.	1.0	2
27	Primate auditory prototype in the evolution of the arcuate fasciculus. Nature Neuroscience, 2020, 23, 611-614.	7.1	53
28	Developmental changes in automatic rule-learning mechanisms across early childhood. Developmental Science, 2019, 22, e12700.	1.3	9
29	Age Differences in Encoding-Related Alpha Power Reflect Sentence Comprehension Difficulties. Frontiers in Aging Neuroscience, 2019, 11, 183.	1.7	6
30	Cortical thickness lateralization and its relation to language abilities in children. Developmental Cognitive Neuroscience, 2019, 39, 100704.	1.9	23
31	Contributions of left frontal and temporal cortex to sentence comprehension: Evidence from simultaneous TMS-EEG. Cortex, 2019, 115, 86-98.	1.1	23
32	Young childrenâ€™s sentence comprehension: Neural correlates of syntax-semantic competition. Brain and Cognition, 2019, 134, 110-121.	0.8	13
33	A new computational approach to estimate whole-brain effective connectivity from functional and structural MRI, applied to language development. Scientific Reports, 2019, 9, 8479.	1.6	16
34	Mathematical expertise modulates the architecture of dorsal and cortico-thalamic white matter tracts. Scientific Reports, 2019, 9, 6825.	1.6	12
35	The emergence of long-range language network structural covariance and language abilities. NeuroImage, 2019, 191, 36-48.	2.1	19
36	Intonation guides sentence processing in the left inferior frontal gyrus. Cortex, 2019, 117, 122-134.	1.1	28

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37	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
38	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
39	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
40	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
41	Oscillatory dynamics of cortical functional connections in semantic prediction. <i>Human Brain Mapping</i> , 2019, 40, 1856-1866.	1.9	18
42	Alignment of alpha-band desynchronization with syntactic structure predicts successful sentence comprehension. <i>NeuroImage</i> , 2018, 175, 286-296.	2.1	26
43	Hypermyelination of the left auditory cortex in developmental dyslexia. <i>Neurology</i> , 2018, 90, e492-e497.	1.5	16
44	Structural connectivity of right frontal hyperactive areas scales with stuttering severity. <i>Brain</i> , 2018, 141, 191-204.	3.7	76
45	The right inferior frontal gyrus processes nested non-local dependencies in music. <i>Scientific Reports</i> , 2018, 8, 3822.	1.6	54
46	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
47	White matter pathways for prosodic structure building: A case study. <i>Brain and Language</i> , 2018, 183, 1-10.	0.8	10
48	Building by Syntax: The Neural Basis of Minimal Linguistic Structures. <i>Cerebral Cortex</i> , 2017, 27, bhv234.	1.6	80
49	Linguistic Bias Modulates Interpretation of Speech via Neural Delta-Band Oscillations. <i>Cerebral Cortex</i> , 2017, 27, 4293-4302.	1.6	90
50	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
51	Evolution of the neural language network. <i>Psychonomic Bulletin and Review</i> , 2017, 24, 41-47.	1.4	73
52	The origins of word learning: Brain responses of 3-month-olds indicate their rapid association of objects and words. <i>Developmental Science</i> , 2017, 20, e12357.	1.3	38
53	Auditory brainstem responses to stop consonants predict literacy. <i>Clinical Neurophysiology</i> , 2017, 128, 484-494.	0.7	13
54	Left posterior inferior frontal gyrus is causally involved in reordering during sentence processing. <i>NeuroImage</i> , 2017, 148, 254-263.	2.1	40

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55	Dyslexia risk gene relates to representation of sound in the auditory brainstem. <i>Developmental Cognitive Neuroscience</i> , 2017, 24, 63-71.	1.9	37
56	Oscillatory EEG dynamics underlying automatic chunking during sentence processing. <i>NeuroImage</i> , 2017, 152, 647-657.	2.1	51
57	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
58	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
59	Language, mind and brain. <i>Nature Human Behaviour</i> , 2017, 1, 713-722.	6.2	199
60	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
61	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
62	The Sleeping Infant Brain Anticipates Development. <i>Current Biology</i> , 2017, 27, 2374-2380.e3.	1.8	47
63	The dorsal pathways: A comment on Kronfeld-Duenias etÂal.. <i>Cortex</i> , 2017, 90, 166-168.	1.1	3
64	Functional organization of the language network in three- and six-year-old children. <i>Neuropsychologia</i> , 2017, 98, 24-33.	0.7	13
65	Implicit and explicit false belief development in preschool children. <i>Developmental Science</i> , 2017, 20, e12445.	1.3	78
66	Fronto-Parietal Contributions to Phonological Processes in Successful Artificial Grammar Learning. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 551.	1.0	12
67	Prediction Signatures in the Brain: Semantic Pre-Activation during Language Comprehension. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 591.	1.0	48
68	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
69	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
70	The ontogeny of the cortical language network. <i>Nature Reviews Neuroscience</i> , 2016, 17, 323-332.	4.9	244
71	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
72	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

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73	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
74	Classifying song and speech: effects of focal temporal lesions and musical disorder. <i>Neurocase</i> , 2016, 22, 496-504.	0.2	2
75	Evolutionary origins of non-adjacent sequence processing in primate brain potentials. <i>Scientific Reports</i> , 2016, 6, 36259.	1.6	39
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	How the brain attunes to sentence processing: Relating behavior, structure, and function. <i>NeuroImage</i> , 2016, 129, 268-278.	2.1	23
78	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
79	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
80	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
81	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
82	Brain Functional and Structural Predictors of Language Performance. <i>Cerebral Cortex</i> , 2016, 26, 2127-2139.	1.6	138
83	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
84	Brain structural correlates of complex sentence comprehension in children. <i>Developmental Cognitive Neuroscience</i> , 2015, 15, 48-57.	1.9	16
85	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
86	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
87	Auditory Discrimination Between Function Words in Children and Adults: A Mismatch Negativity Study. <i>Frontiers in Psychology</i> , 2015, 6, 1930.	1.1	7
88	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
89	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
90	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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91	White-matter pathways for speech and language processing. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2015, 129, 177-186.	1.0	86
92	Working-memory endophenotype and dyslexia-associated genetic variant predict dyslexia phenotype. Cortex, 2015, 71, 291-305.	1.1	23
93	Generalization of word meanings during infant sleep. Nature Communications, 2015, 6, 6004.	5.8	141
94	Frontal-posterior theta oscillations reflect memory retrieval during sentence comprehension. Cortex, 2015, 71, 205-218.	1.1	78
95	Response to Bornkessel-Schlesewsky et al. "towards a nonhuman primate model of language?". Trends in Cognitive Sciences, 2015, 19, 483.	4.0	11
96	Degree of automaticity and the prefrontal cortex. Trends in Cognitive Sciences, 2015, 19, 244-250.	4.0	43
97	Grounding language processing on basic neurophysiological principles. Trends in Cognitive Sciences, 2015, 19, 329-338.	4.0	110
98	The language skeleton after dissecting meaning: A functional segregation within Broca's Area. NeuroImage, 2015, 114, 294-302.	2.1	137
99	Present and past: Can writing abilities in school children be associated with their auditory discrimination capacities in infancy?. Research in Developmental Disabilities, 2015, 47, 318-333.	1.2	34
100	Genetic dyslexia risk variant is related to neural connectivity patterns underlying phonological awareness in children. NeuroImage, 2015, 118, 414-421.	2.1	40
101	Common molecular basis of the sentence comprehension network revealed by neurotransmitter receptor fingerprints. Cortex, 2015, 63, 79-89.	1.1	64
102	Different Hemispheric Roles in Recognition of Happy Expressions. PLoS ONE, 2014, 9, e88628.	1.1	13
103	Conscious auditory perception related to long-range synchrony of gamma oscillations. NeuroImage, 2014, 100, 435-443.	2.1	56
104	Sentence processing and verbal working memory in a white-matter-disconnection patient. Neuropsychologia, 2014, 61, 190-196.	0.7	38
105	Functional Network Mirrored in the Prefrontal Cortex, Caudate Nucleus, and Thalamus: High-Resolution Functional Imaging and Structural Connectivity. Journal of Neuroscience, 2014, 34, 9202-9212.	1.7	52
106	Hemispheric lateralization of linguistic prosody recognition in comparison to speech and speaker recognition. NeuroImage, 2014, 102, 332-344.	2.1	48
107	Neural correlates of music-syntactic processing in two-year old children. Developmental Cognitive Neuroscience, 2014, 9, 200-208.	1.9	27
108	Syntax gradually segregates from semantics in the developing brain. NeuroImage, 2014, 100, 106-111.	2.1	80

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109	Evolution, brain, and the nature of language. Trends in Cognitive Sciences, 2013, 17, 89-98.	4.0	414
110	The language network. Current Opinion in Neurobiology, 2013, 23, 250-254.	2.0	488
111	Hierarchical functional connectivity between the core language system and the working memory system. Cortex, 2013, 49, 2416-2423.	1.1	73
112	Language Learning without Control: The Role of the PFC. Journal of Cognitive Neuroscience, 2013, 25, 814-821.	1.1	28
113	The cortical language circuit: from auditory perception to sentence comprehension. Trends in Cognitive Sciences, 2012, 16, 262-268.	4.0	622
114	Auditory perception at the root of language learning. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15953-15958.	3.3	109
115	Perception of Words and Pitch Patterns in Song and Speech. Frontiers in Psychology, 2012, 3, 76.	1.1	71
116	Language Development and the Ontogeny of the Dorsal Pathway. Frontiers in Evolutionary Neuroscience, 2012, 4, 3.	3.7	49
117	Mass counts: ERP correlates of non-adjacent dependency learning under different exposure conditions. Neuroscience Letters, 2011, 487, 282-286.	1.0	21
118	Precursors to Natural Grammar Learning: Preliminary Evidence from 4-Month-Old Infants. PLoS ONE, 2011, 6, e17920.	1.1	60
119	Maturation of the Language Network: From Inter- to Intrahemispheric Connectivities. PLoS ONE, 2011, 6, e20726.	1.1	107
120	The Brain Basis of Language Processing: From Structure to Function. Physiological Reviews, 2011, 91, 1357-1392.	13.1	1,328
121	Neural language networks at birth. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16056-16061.	3.3	398
122	Prosody meets syntax: the role of the corpus callosum. Brain, 2010, 133, 2643-2655.	3.7	66
123	Broca's Region: Novel Organizational Principles and Multiple Receptor Mapping. PLoS Biology, 2010, 8, e1000489.	2.6	304
124	Syntactic learning by mere exposure - An ERP study in adult learners. BMC Neuroscience, 2009, 10, 89.	0.8	39
125	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, 8362-8367.	3.3	307
126	Mathematical Logic in the Human Brain: Syntax. PLoS ONE, 2009, 4, e5599.	1.1	47



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127	Processing Prosodic Boundaries in Natural and Hummed Speech: An fMRI Study. <i>Cerebral Cortex</i> , 2008, 18, 541-552.	1.6	35
128	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
129	Role of the Corpus Callosum in Speech Comprehension: Interfacing Syntax and Prosody. <i>Neuron</i> , 2007, 53, 135-145.	3.8	115
130	Broca's Area and the Ventral Premotor Cortex in Language: Functional Differentiation and Specificity. <i>Cortex</i> , 2006, 42, 472-475.	1.1	61
131	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
132	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
133	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
134	Brain activity varies with modulation of dynamic pitch variance in sentence melody. <i>Brain and Language</i> , 2004, 89, 277-289.	0.8	204
135	Lateralization of auditory language functions: A dynamic dual pathway model. <i>Brain and Language</i> , 2004, 89, 267-276.	0.8	346
136	Event-related brain potential studies in language. <i>Current Neurology and Neuroscience Reports</i> , 2004, 4, 466-470.	2.0	103
137	Processing local transitions versus long-distance syntactic hierarchies. <i>Trends in Cognitive Sciences</i> , 2004, 8, 245-247.	4.0	134
138	Interactions of the hippocampal system and the prefrontal cortex in learning language-like rules. <i>NeuroImage</i> , 2003, 19, 1730-1737.	2.1	207
139	Electric brain responses reveal gender differences in music processing. <i>NeuroReport</i> , 2003, 14, 709-713.	0.6	89
140	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
141	Bach Speaks: A Cortical "Language-Network" Serves the Processing of Music. <i>NeuroImage</i> , 2002, 17, 956-966.	2.1	445
142	fMRI reveals brain regions mediating slow prosodic modulations in spoken sentences. <i>Human Brain Mapping</i> , 2002, 17, 73-88.	1.9	307
143	Bach speaks: a cortical "language-network" serves the processing of music. <i>NeuroImage</i> , 2002, 17, 956-66.	2.1	143
144	Musical syntax is processed in Broca's area: an MEG study. <i>Nature Neuroscience</i> , 2001, 4, 540-545.	7.1	820