

# Matthew H Davis

## List of Publications by Year in descending order

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Version: 2024-02-01

116  
papers

15,337  
citations

25014

57  
h-index

24961

109  
g-index

133  
all docs

133  
docs citations

133  
times ranked

9433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting Awareness in the Vegetative State. <i>Science</i> , 2006, 313, 1402-1402.	6.0	1,465
2	Hierarchical Processing in Spoken Language Comprehension. <i>Journal of Neuroscience</i> , 2003, 23, 3423-3431.	1.7	631
3	Individual Differences in Reward Drive Predict Neural Responses to Images of Food. <i>Journal of Neuroscience</i> , 2006, 26, 5160-5166.	1.7	540
4	The Neural Mechanisms of Speech Comprehension: fMRI studies of Semantic Ambiguity. <i>Cerebral Cortex</i> , 2005, 15, 1261-1269.	1.6	508
5	The broth in my brother's brothel: Morpho-orthographic segmentation in visual word recognition. <i>Psychonomic Bulletin and Review</i> , 2004, 11, 1090-1098.	1.4	502
6	Speech recognition in adverse conditions: A review. <i>Language and Cognitive Processes</i> , 2012, 27, 953-978.	2.3	502
7	The time course of visual word recognition as revealed by linear regression analysis of ERP data. <i>NeuroImage</i> , 2006, 30, 1383-1400.	2.1	482
8	Phase-Locked Responses to Speech in Human Auditory Cortex are Enhanced During Comprehension. <i>Cerebral Cortex</i> , 2013, 23, 1378-1387.	1.6	469
9	Lexical Information Drives Perceptual Learning of Distorted Speech: Evidence From the Comprehension of Noise-Vocoded Sentences.. <i>Journal of Experimental Psychology: General</i> , 2005, 134, 222-241.	1.5	414
10	A complementary systems account of word learning: neural and behavioural evidence. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 3773-3800.	1.8	409
11	Neural Oscillations Carry Speech Rhythm through to Comprehension. <i>Frontiers in Psychology</i> , 2012, 3, 320.	1.1	401
12	Susceptibility-Induced Loss of Signal: Comparing PET and fMRI on a Semantic Task. <i>NeuroImage</i> , 2000, 11, 589-600.	2.1	400
13	Hearing speech sounds: Top-down influences on the interface between audition and speech perception. <i>Hearing Research</i> , 2007, 229, 132-147.	0.9	354
14	Morphological decomposition based on the analysis of orthography. <i>Language and Cognitive Processes</i> , 2008, 23, 942-971.	2.3	351
15	Predictive Top-Down Integration of Prior Knowledge during Speech Perception. <i>Journal of Neuroscience</i> , 2012, 32, 8443-8453.	1.7	314
16	Effortful Listening: The Processing of Degraded Speech Depends Critically on Attention. <i>Journal of Neuroscience</i> , 2012, 32, 14010-14021.	1.7	313
17	When thoughts become action: An fMRI paradigm to study volitional brain activity in non-communicative brain injured patients. <i>NeuroImage</i> , 2007, 36, 979-992.	2.1	299
18	Can cognitive models explain brain activation during word and pseudoword reading? A meta-analysis of 36 neuroimaging studies.. <i>Psychological Bulletin</i> , 2013, 139, 766-791.	5.5	289

#	ARTICLE	IF	CITATIONS
19	Towards the routine use of brain imaging to aid the clinical diagnosis of disorders of consciousness. <i>Brain</i> , 2009, 132, 2541-2552.	3.7	252
20	Dissociating speech perception and comprehension at reduced levels of awareness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16032-16037.	3.3	238
21	Is there an anatomical basis for category-specificity? Semantic memory studies in PET and fMRI. <i>Neuropsychologia</i> , 2002, 40, 54-75.	0.7	233
22	Learning and Consolidation of Novel Spoken Words. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 803-820.	1.1	232
23	Do vegetative patients retain aspects of language comprehension? Evidence from fMRI. <i>Brain</i> , 2007, 130, 2494-2507.	3.7	230
24	Mix, a program for pseudorandomization. <i>Behavior Research Methods</i> , 2006, 38, 584-589.	2.3	213
25	Change detection in children with autism: An auditory event-related fMRI study. <i>NeuroImage</i> , 2006, 29, 475-484.	2.1	212
26	Leading up the lexical garden path: Segmentation and ambiguity in spoken word recognition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2002, 28, 218-244.	0.7	164
27	Disgust sensitivity predicts the insula and pallidal response to pictures of disgusting foods. <i>European Journal of Neuroscience</i> , 2007, 25, 3422-3428.	1.2	161
28	Temporal Predictive Codes for Spoken Words in Auditory Cortex. <i>Current Biology</i> , 2012, 22, 615-621.	1.8	159
29	Phase Entrainment of Brain Oscillations Causally Modulates Neural Responses to Intelligible Speech. <i>Current Biology</i> , 2018, 28, 401-408.e5.	1.8	152
30	Does Semantic Context Benefit Speech Understanding through "Top-Down" Processes? Evidence from Time-resolved Sparse fMRI. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3914-3932.	1.1	143
31	Perceptual learning of noise vocoded words: Effects of feedback and lexicality.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2008, 34, 460-474.	0.7	128
32	Hierarchical processing for speech in human auditory cortex and beyond. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 51.	1.0	120
33	Hierarchical Organization of Auditory and Motor Representations in Speech Perception: Evidence from Searchlight Similarity Analysis. <i>Cerebral Cortex</i> , 2015, 25, 4772-4788.	1.6	120
34	Neural responses to morphological, syntactic, and semantic properties of single words: An fMRI study. <i>Brain and Language</i> , 2004, 89, 439-449.	0.8	117
35	Using Functional Magnetic Resonance Imaging to Detect Covert Awareness in the Vegetative State. <i>Archives of Neurology</i> , 2007, 64, 1098.	4.9	114
36	Prediction Errors but Not Sharpened Signals Simulate Multivoxel fMRI Patterns during Speech Perception. <i>PLoS Biology</i> , 2016, 14, e1002577.	2.6	109

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37	Residual auditory function in persistent vegetative state: a combined pet and fmri study. <i>Neuropsychological Rehabilitation</i> , 2005, 15, 290-306.	1.0	107
38	Evidence for causal top-down frontal contributions to predictive processes in speech perception. <i>Nature Communications</i> , 2017, 8, 2154.	5.8	107
39	Brain regions recruited for the effortful comprehension of noise-vocoded words. <i>Language and Cognitive Processes</i> , 2012, 27, 1145-1166.	2.3	105
40	Interleaved silent steady state (ISSS) imaging: A new sparse imaging method applied to auditory fMRI. <i>NeuroImage</i> , 2006, 29, 774-782.	2.1	99
41	Match: A program to assist in matching the conditions of factorial experiments. <i>Behavior Research Methods</i> , 2007, 39, 973-978.	2.3	96
42	Perceptual learning of degraded speech by minimizing prediction error. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1747-56.	3.3	96
43	Human auditory cortex is sensitive to the perceived clarity of speech. <i>NeuroImage</i> , 2012, 60, 1490-1502.	2.1	95
44	Why Clowns Taste Funny: The Relationship between Humor and Semantic Ambiguity. <i>Journal of Neuroscience</i> , 2011, 31, 9665-9671.	1.7	90
45	Activation of articulatory information in speech perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 592-597.	3.3	89
46	Is there a "fete"™ in "fetish"™? Effects of orthographic opacity on morpho-orthographic segmentation in visual word recognition. <i>Journal of Memory and Language</i> , 2008, 58, 307-326.	1.1	87
47	Differentiating Morphology, Form, and Meaning: Neural Correlates of Morphological Complexity. <i>Journal of Cognitive Neuroscience</i> , 2007, 19, 1464-1475.	1.1	83
48	Imagery or meaning? Evidence for a semantic origin of category-specific brain activity in metabolic imaging. <i>European Journal of Neuroscience</i> , 2008, 27, 1856-1866.	1.2	82
49	On the complexities of measuring naming.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2002, 28, 307-314.	0.7	80
50	Neural Response Suppression Predicts Repetition Priming of Spoken Words and Pseudowords. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 1237-1252.	1.1	79
51	Dissociating Frontotemporal Contributions to Semantic Ambiguity Resolution in Spoken Sentences. <i>Cerebral Cortex</i> , 2012, 22, 1761-1773.	1.6	78
52	Can I have a quick word? Early electrophysiological manifestations of psycholinguistic processes revealed by event-related regression analysis of the EEG. <i>Biological Psychology</i> , 2009, 80, 64-74.	1.1	73
53	Modulation of brain activity by multiple lexical and word form variables in visual word recognition: A parametric fMRI study. <i>NeuroImage</i> , 2008, 42, 1185-1195.	2.1	72
54	Sustained neural rhythms reveal endogenous oscillations supporting speech perception. <i>PLoS Biology</i> , 2021, 19, e3001142.	2.6	66

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55	Evaluating an acoustically quiet EPI sequence for use in fMRI studies of speech and auditory processing. <i>NeuroImage</i> , 2010, 52, 1410-1419.	2.1	63
56	Individual Sequence Representations in the Medial Temporal Lobe. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 1111-1121.	1.1	63
57	Top-down influences of written text on perceived clarity of degraded speech.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2014, 40, 186-199.	0.7	63
58	Derivational morphology and base morpheme frequency. <i>Journal of Memory and Language</i> , 2010, 63, 117-130.	1.1	61
59	Generalization of perceptual learning of vocoded speech.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2011, 37, 283-295.	0.7	61
60	Is the Link between Anatomical Structure and Function Equally Strong at All Cognitive Levels of Processing?. <i>Cerebral Cortex</i> , 2012, 22, 1593-1603.	1.6	61
61	On the complexities of measuring naming.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2002, 28, 307-314.	0.7	60
62	The role of domain-general frontal systems in language comprehension: Evidence from dual-task interference and semantic ambiguity. <i>Brain and Language</i> , 2010, 115, 182-188.	0.8	59
63	Neural dissociation in processing noise and accent in spoken language comprehension. <i>Neuropsychologia</i> , 2012, 50, 77-84.	0.7	55
64	Form and meaning in early morphological processing: Comment on Feldman, O'Connell, and Moscoso del Prado Mart'ın (2009). <i>Psychonomic Bulletin and Review</i> , 2010, 17, 749-755.	1.4	52
65	Using a hierarchical approach to investigate residual auditory cognition in persistent vegetative state. <i>Progress in Brain Research</i> , 2005, 150, 457-608.	0.9	51
66	Learning new meanings for old words: effects of semantic relatedness. <i>Memory and Cognition</i> , 2012, 40, 1095-1108.	0.9	51
67	Illusory Vowels Resulting from Perceptual Continuity: A Functional Magnetic Resonance Imaging Study. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 1737-1752.	1.1	50
68	Interpreting response time effects in functional imaging studies. <i>NeuroImage</i> , 2014, 99, 419-433.	2.1	50
69	Neural correlates of successful semantic processing during propofol sedation. <i>Human Brain Mapping</i> , 2014, 35, 2935-2949.	1.9	49
70	How to test for phasic modulation of neural and behavioural responses. <i>NeuroImage</i> , 2019, 202, 116175.	2.1	49
71	Individual differences in premotor and motor recruitment during speech perception. <i>Neuropsychologia</i> , 2012, 50, 1380-1392.	0.7	47
72	Long-term priming of the meanings of ambiguous words. <i>Journal of Memory and Language</i> , 2013, 68, 180-198.	1.1	47

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73	Early Visual Word Processing Is Flexible: Evidence from Spatiotemporal Brain Dynamics. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 1738-1751.	1.1	47
74	The acquisition of morphological knowledge investigated through artificial language learning. <i>Quarterly Journal of Experimental Psychology</i> , 2011, 64, 1200-1220.	0.6	46
75	The role of memory consolidation in generalisation of new linguistic information. <i>Cognition</i> , 2012, 125, 107-112.	1.1	46
76	From specific examples to general knowledge in language learning. <i>Cognitive Psychology</i> , 2015, 79, 1-39.	0.9	45
77	Lexical Influences on Auditory Streaming. <i>Current Biology</i> , 2013, 23, 1585-1589.	1.8	43
78	Comparing and validating methods of reading instruction using behavioural and neural findings in an artificial orthography.. <i>Journal of Experimental Psychology: General</i> , 2017, 146, 826-858.	1.5	43
79	Rapid computations of spectrotemporal prediction error support perception of degraded speech. <i>ELife</i> , 2020, 9, .	2.8	41
80	Accent modulates access to word meaning: Evidence for a speaker-model account of spoken word recognition. <i>Cognitive Psychology</i> , 2017, 98, 73-101.	0.9	40
81	Task modulation of brain responses in visual word recognition as studied using EEG/MEG and fMRI. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 376.	1.0	39
82	Mapping visual symbols onto spoken language along the ventral visual stream. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17723-17728.	3.3	38
83	Adore-able not adorable? Orthographic underspecification studied with masked repetition priming. <i>European Journal of Cognitive Psychology</i> , 2009, 21, 813-836.	1.3	35
84	Inferior Frontal Cortex Contributions to the Recognition of Spoken Words and Their Constituent Speech Sounds. <i>Journal of Cognitive Neuroscience</i> , 2017, 29, 919-936.	1.1	34
85	Semantic and phonological schema influence spoken word learning and overnight consolidation. <i>Quarterly Journal of Experimental Psychology</i> , 2018, 71, 1469-1481.	0.6	33
86	Transcranial electric stimulation for the investigation of speech perception and comprehension. <i>Language, Cognition and Neuroscience</i> , 2017, 32, 910-923.	0.7	32
87	Permutation testing of orthogonal factorial effects in a language-processing experiment using fMRI. <i>Human Brain Mapping</i> , 2006, 27, 425-433.	1.9	31
88	Distinct Neural Specializations for Learning to Read Words and Name Objects. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 2128-2154.	1.1	27
89	Neural Decoding of Bistable Sounds Reveals an Effect of Intention on Perceptual Organization. <i>Journal of Neuroscience</i> , 2018, 38, 2844-2853.	1.7	27
90	The Continuity Illusion Does Not Depend on Attentional State: fMRI Evidence from Illusory Vowels. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2675-2689.	1.1	25

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91	Perception of Rhythmic Speech Is Modulated by Focal Bilateral Transcranial Alternating Current Stimulation. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 226-240.	1.1	23
92	Neural Prediction Errors Distinguish Perception and Misperception of Speech. <i>Journal of Neuroscience</i> , 2018, 38, 6076-6089.	1.7	22
93	A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.5	21
94	The Dramatic Impact of Explicit Instruction on Learning to Read in a New Writing System. <i>Psychological Science</i> , 2021, 32, 471-484.	1.8	20
95	Listeners and readers generalize their experience with word meanings across modalities.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2018, 44, 1533-1561.	0.7	16
96	Units of representation in visual word recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14687-14688.	3.3	15
97	Neural mechanisms underlying the grouping effect in short-term memory. <i>Human Brain Mapping</i> , 2012, 33, 1634-1647.	1.9	14
98	Extracting Language Content from Speech Sounds: The Information Theoretic Approach. <i>Springer Handbook of Auditory Research</i> , 2022, , 113-139.	0.3	14
99	The Neural Time Course of Semantic Ambiguity Resolution in Speech Comprehension. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 403-425.	1.1	13
100	Perceptual and response components in repetition priming of spoken words and pseudowords. <i>Quarterly Journal of Experimental Psychology</i> , 2011, 64, 96-121.	0.6	12
101	Learning and retrieving holistic and componential visual-verbal associations in reading and object naming. <i>Neuropsychologia</i> , 2017, 98, 68-84.	0.7	12
102	Frequency effects in processing inflected Dutch nouns: A distributed connectionist account. , 0, , .		12
103	Morphology and frequency: Contrasting methodologies. , 2003, , 89-124.		11
104	Objective Measures of Auditory Scene Analysis. , 2010, , 507-519.		10
105	Orthographic and semantic opacity in masked and delayed priming: Evidence from Greek. <i>Language and Cognitive Processes</i> , 2011, 26, 530-557.	2.3	9
106	Timing of brain entrainment to the speech envelope during speaking, listening and self-listening. <i>Cognition</i> , 2022, 224, 105051.	1.1	9
107	Predictive Neural Computations Support Spoken Word Recognition: Evidence from MEG and Competitor Priming. <i>Journal of Neuroscience</i> , 2021, 41, 6919-6932.	1.7	7
108	Differential Auditory and Visual Phase-Locking Are Observed during Audio-Visual Benefit and Silent Lip-Reading for Speech Perception. <i>Journal of Neuroscience</i> , 2022, 42, 6108-6120.	1.7	7

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109	The relationship between sentence comprehension and lexical-semantic retuning. <i>Journal of Memory and Language</i> , 2021, 116, 104188.	1.1	6
110	The Neurobiology of Lexical Access. , 2016, , 541-555.		5
111	Response to McGettigan et al.: Task-based accounts are not sufficiently coherent to explain articulatory effects in speech perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, .	3.3	3
112	Brain structures underlying lexical processing of speech: Evidence from brain imaging. , 2011, , 197-230.		3
113	How to study spoken language understanding: a survey of neuroscientific methods. <i>Language, Cognition and Neuroscience</i> , 2017, 32, 805-817.	0.7	2
114	Efficiency, information theory, and neural representations. <i>Behavioral and Brain Sciences</i> , 2000, 23, 475-476.	0.4	0
115	From sound to meaning: Hierarchical processing in speech comprehension. , 2005, , 298-305.		0
116	Reply to Skoyles: Direct acoustic-to-articulatory links have functional significance and historical precedent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, .	3.3	0