James R Booth

List of Publications by Year in descending order

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139 papers	7,466 citations	50276 46 h-index	62596 80 g-index
141 all docs	141 docs citations	141 times ranked	5388 citing authors

#	Article	IF	Citations
1	Individual and developmental differences in semantic priming: Empirical and computational support for a single-mechanism account of lexical processing.. Psychological Review, 2000, 107, 786-823.	3.8	311
2	The role of the basal ganglia and cerebellum in language processing. Brain Research, 2007, 1133, 136-144.	2.2	303
3	Neural development of selective attention and response inhibition. NeuroImage, 2003, 20, 737-751.	4.2	300
4	Functional Anatomy of Intra- and Cross-Modal Lexical Tasks. NeuroImage, 2002, 16, 7-22.	4.2	294
5	Larger deficits in brain networks for response inhibition than for visual selective attention in attention deficit hyperactivity disorder (ADHD). Journal of Child Psychology and Psychiatry and Allied Disciplines, 2005, 46, 94-111.	5.2	280
6	Modality independence of word comprehension. Human Brain Mapping, 2002, 16, 251-261.	3.6	218
7	Development of Brain Mechanisms for Processing Orthographic and Phonologic Representations. Journal of Cognitive Neuroscience, 2004, 16, 1234-1249.	2.3	215
8	Sex differences in neural processing of language among children. Neuropsychologia, 2008, 46, 1349-1362.	1.6	188
9	Deficient orthographic and phonological representations in children with dyslexia revealed by brain activation patterns. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2006, 47, 1041-1050.	5.2	173
10	Shifts of Effective Connectivity within a Language Network during Rhyming and Spelling. Journal of Neuroscience, 2005, 25, 5397-5403.	3.6	158
11	The Brain Network for Deductive Reasoning: A Quantitative Meta-analysis of 28 Neuroimaging Studies. Journal of Cognitive Neuroscience, 2011, 23, 3483-3497.	2.3	149
12	Effective brain connectivity in children with reading difficulties during phonological processing. Brain and Language, 2008, 107, 91-101.	1.6	142
13	Specialization of phonological and semantic processing in Chinese word reading. Brain Research, 2006, 1071, 197-207.	2.2	140
14	Relation between brain activation and lexical performance. Human Brain Mapping, 2003, 19, 155-169.	3.6	134
15	Distinct representations of subtraction and multiplication in the neural systems for numerosity and language. Human Brain Mapping, 2011, 32, 1932-1947.	3.6	131
16	Reading unspaced text: Implications for theories of reading eye movements. Vision Research, 1994, 34, 1735-1766.	1.4	127
17	Quick, automatic, and general activation of orthographic and phonological representations in young readers.. Developmental Psychology, 1999, 35, 3-19.	1.6	111
18	Functional organization of activation patterns in children: Whole brain fMRI imaging during three different cognitive tasks. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 1999, 23, 669-682.	4.8	110

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19	The Development of Specialized Brain Systems in Reading and Oral-Language. Child Neuropsychology, 2001, 7, 119-141.	1.3	108
20	Developmental and skill effects on the neural correlates of semantic processing to visually presented words. Human Brain Mapping, 2006, 27, 915-924.	3.6	107
21	Developmental and Lesion Effects in Brain Activation During Sentence Comprehension and Mental Rotation. Developmental Neuropsychology, 2000, 18, 139-169.	1.4	105
22	Developmental changes in activation and effective connectivity in phonological processing. NeuroImage, 2007, 38, 564-575.	4.2	99
23	Developmental changes in the neural correlates of semantic processing. NeuroImage, 2006, 29, 1141-1149.	4.2	94
24	Developmental dissociation in the neural responses to simple multiplication and subtraction problems. Developmental Science, 2014, 17, 537-552.	2.4	94
25	The interaction between orthographic and phonological information in children: An fMRI study. Human Brain Mapping, 2007, 28, 880-891.	3.6	91
26	Developmental Differences in Visual and Auditory Processing of Complex Sentences. Child Development, 2000, 71, 981-1003.	3.0	90
27	Weaker topâ€“down modulation from the left inferior frontal gyrus in children. NeuroImage, 2006, 33, 991-998.	4.2	89
28	Developmental changes in brain regions involved in phonological and orthographic processing during spoken language processing. NeuroImage, 2008, 41, 623-635.	4.2	80
29	Children with reading difficulties show differences in brain regions associated with orthographic processing during spoken language processing. Brain Research, 2010, 1356, 73-84.	2.2	79
30	Cultural Constraints on Brain Development: Evidence from a Developmental Study of Visual Word Processing in Mandarin Chinese. Cerebral Cortex, 2010, 20, 1223-1233.	2.9	77
31	Neural correlates of orthographic and phonological consistency effects in children. Human Brain Mapping, 2008, 29, 1416-1429.	3.6	73
32	High Proficiency in a Second Language is Characterized by Greater Involvement of the First Language Network: Evidence from Chinese Learners of English. Journal of Cognitive Neuroscience, 2013, 25, 1649-1663.	2.3	70
33	Children with reading disorder show modality independent brain abnormalities during semantic tasks. Neuropsychologia, 2007, 45, 775-783.	1.6	67
34	Developmental Increase in Topâ€“Down and Bottomâ€“Up Processing in a Phonological Task: An Effective Connectivity, fMRI Study. Journal of Cognitive Neuroscience, 2009, 21, 1135-1145.	2.3	67
35	Developmental differences of neurocognitive networks for phonological and semantic processing in Chinese word reading. Human Brain Mapping, 2009, 30, 797-809.	3.6	67
36	Children with mathematical learning disability fail in recruiting verbal and numerical brain regions when solving simple multiplication problems. Cortex, 2014, 57, 143-155.	2.4	67

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37	The Association of Rapid Temporal Perception With Orthographic and Phonological Processing in Children and Adults With Reading Impairment. Scientific Studies of Reading, 2000, 4, 101-132.	2.0	66
38	Neural correlates of mapping from phonology to orthography in children performing an auditory spelling task. Developmental Science, 2007, 10, 441-451.	2.4	66
39	Modality-specific and -independent developmental differences in the neural substrate for lexical processing. Journal of Neurolinguistics, 2003, 16, 383-405.	1.1	65
40	The direct segment of the arcuate fasciculus is predictive of longitudinal reading change. Developmental Cognitive Neuroscience, 2015, 13, 68-74.	4.0	65
41	Bidirectional Connectivity between Hemispheres Occurs at Multiple Levels in Language Processing But Depends on Sex. Journal of Neuroscience, 2010, 30, 11576-11585.	3.6	64
42	The role of inferior frontal gyrus and inferior parietal lobule in semantic processing of Chinese characters. Experimental Brain Research, 2009, 198, 465-475.	1.5	62
43	Differential prefrontalâ€“temporal neural correlates of semantic processing in children. Brain and Language, 2006, 99, 226-235.	1.6	61
44	Reading acquisition reorganizes the phonological awareness network only in alphabetic writing systems. Human Brain Mapping, 2013, 34, 3354-3368.	3.6	56
45	Developmental increases in effective connectivity to brain regions involved in phonological processing during tasks with orthographic demands. Brain Research, 2008, 1189, 78-89.	2.2	55
46	Longitudinal changes in reading network connectivity related to skill improvement. NeuroImage, 2017, 158, 90-98.	4.2	54
47	Perceiving fingers in single-digit arithmetic problems. Frontiers in Psychology, 2015, 6, 226.	2.1	50
48	Early-life stress exposure associated with altered prefrontal resting-state fMRI connectivity in young children. Developmental Cognitive Neuroscience, 2016, 19, 107-114.	4.0	50
49	Differential effects of orthographic and phonological consistency in cortex for children with and without reading impairment. Neuropsychologia, 2008, 46, 3210-3224.	1.6	48
50	Similar alterations in brain function for phonological and semantic processing to visual characters in Chinese dyslexia. Neuropsychologia, 2012, 50, 2224-2232.	1.6	48
51	Chinese dyslexics show neural differences in morphological processing. Developmental Cognitive Neuroscience, 2013, 6, 40-50.	4.0	48
52	Sensitive period for whiteâ€matter connectivity of superior temporal cortex in deaf people. Human Brain Mapping, 2012, 33, 349-359.	3.6	46
53	Fillers and spaces in text: The importance of word recognition during reading. Vision Research, 1997, 37, 2899-2914.	1.4	45
54	Modality- and Task-specific Brain Regions Involved in Chinese Lexical Processing. Journal of Cognitive Neuroscience, 2009, 21, 1473-1487.	2.3	45

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55	The brain adapts to orthography with experience: evidence from English and Chinese. Developmental Science, 2015, 18, 785-798.	2.4	45
56	Prediction of Reading Skill Several Years Later Depends on Age and Brain Region: Implications for Developmental Models of Reading. Journal of Neuroscience, 2011, 31, 9641-9648.	3.6	44
57	Parental socioeconomic status and the neural basis of arithmetic: differential relations to verbal and visuoâ€spatial representations. Developmental Science, 2015, 18, 799-814.	2.4	42
58	Development of brain networks involved in spoken word processing of Mandarin Chinese. NeuroImage, 2011, 57, 750-759.	4.2	41
59	Item-specific and generalization effects on brain activation when learning Chinese characters. Neuropsychologia, 2008, 46, 1864-1876.	1.6	40
60	Differences between child and adult largeâ€scale functional brain networks for reading tasks. Human Brain Mapping, 2018, 39, 662-679.	3.6	39
61	More modeling but still no stages: Reply to Borowsky and Besner.. Psychological Review, 2006, 113, 196-200.	3.8	36
62	Neural Correlates of Math Gains Vary Depending on Parental Socioeconomic Status (SES). Frontiers in Psychology, 2016, 7, 892.	2.1	36
63	Reading skillâ€“fractional anisotropy relationships in visuospatial tracts diverge depending on socioeconomic status. Developmental Science, 2016, 19, 673-685.	2.4	36
64	Cross-modal integration in the brain is related to phonological awareness only in typical readers, not in those with reading difficulty. Frontiers in Human Neuroscience, 2013, 7, 388.	2.0	35
65	Altered Intra- and Inter-Regional Synchronization of Superior Temporal Cortex in Deaf People. Cerebral Cortex, 2013, 23, 1988-1996.	2.9	34
66	Individual Differences in Crossmodal Brain Activity Predict Arcuate Fasciculus Connectivity in Developing Readers. Journal of Cognitive Neuroscience, 2014, 26, 1331-1346.	2.3	33
67	The Differential Role of Verbal and Spatial Working Memory in the Neural Basis of Arithmetic. Developmental Neuropsychology, 2014, 39, 440-458.	1.4	31
68	Development of the understanding of the polysemous meanings of the mental-state verb know. Cognitive Development, 1995, 10, 529-549.	1.3	30
69	Acquisition of the mental state verb know by 2- to 5-year-old children. Journal of Psycholinguistic Research, 1997, 26, 581-603.	1.3	30
70	Multimodal Lexical Processing in Auditory Cortex Is Literacy Skill Dependent. Cerebral Cortex, 2014, 24, 2464-2475.	2.9	30
71	Fluency in symbolic arithmetic refines the approximate number system in parietal cortex. Human Brain Mapping, 2018, 39, 3956-3971.	3.6	30
72	Role of the cognitive internal state lexicon in reading comprehension.. Journal of Educational Psychology, 1994, 86, 413-422.	2.9	28

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73	Brain lateralization of phonological awareness varies by maternal education. Developmental Science, 2019, 22, e12807.	2.4	26
74	Fractionating the Neural Substrates of Transitive Reasoning: Task-Dependent Contributions of Spatial and Verbal Representations. Cerebral Cortex, 2013, 23, 499-507.	2.9	25
75	Skill dependent audiovisual integration in the fusiform induces repetition suppression. Brain and Language, 2015, 141, 110-123.	1.6	25
76	Reading skill related to left ventral occipitotemporal cortex during a phonological awareness task in 5â€“6-year old children. Developmental Cognitive Neuroscience, 2018, 30, 116-122.	4.0	25
77	Age, sex, and verbal abilities affect location of linguistic connectivity in ventral visual pathway. Brain and Language, 2013, 124, 184-193.	1.6	24
78	The neural bases of the multiplication problem-size effect across countries. Frontiers in Human Neuroscience, 2013, 7, 189.	2.0	24
79	Neural representations of phonology in temporal cortex scaffold longitudinal reading gains in 5- to 7-year-old children. NeuroImage, 2020, 207, 116359.	4.2	24
80	Brain-behavior correlation in children depends on the neurocognitive network. Human Brain Mapping, 2004, 23, 99-108.	3.6	23
81	Much ado about nothing: the place of space in text. Vision Research, 1996, 36, 465-470.	1.4	22
82	Neural specialization of phonological and semantic processing in young children. Human Brain Mapping, 2018, 39, 4334-4348.	3.6	22
83	Weighing the Cost and Benefit of Transcranial Direct Current Stimulation on Different Reading Subskills. Frontiers in Neuroscience, 2016, 10, 262.	2.8	21
84	Development and Disorders of Neurocognitive Systems for Oral Language and Reading. Learning Disability Quarterly, 2001, 24, 205-215.	1.3	20
85	Functional neuroimaging of visuospatial working memory tasks enables accurate detection of attention deficit and hyperactivity disorder. NeuroImage: Clinical, 2015, 9, 244-252.	2.7	20
86	Task dependent lexicality effects support interactive models of reading: A meta-analytic neuroimaging review. Neuropsychologia, 2015, 67, 148-158.	1.6	20
87	Dynamic spatial organization of the occipito-temporal word form area for second language processing. Neuropsychologia, 2017, 103, 20-28.	1.6	18
88	Development of Lexical and Sentence Level Context Effects for Dominant and Subordinate Word Meanings of Homonyms. Journal of Psycholinguistic Research, 2006, 35, 531-554.	1.3	17
89	Testing for a cultural influence on reading for meaning in the developing brain: the neural basis of semantic processing in Chinese children. Frontiers in Human Neuroscience, 2009, 3, 27.	2.0	17
90	Developmental changes in the inferior frontal cortex for selecting semantic representations. Developmental Cognitive Neuroscience, 2011, 1, 338-350.	4.0	17

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91	The Involvement of Occipital and Inferior Frontal Cortex in the Phonological Learning of Chinese Characters. Journal of Cognitive Neuroscience, 2011, 23, 1998-2012.	2.3	17
92	Dyslexia on a continuum: A complex network approach. PLoS ONE, 2018, 13, e0208923.	2.5	17
93	Music Rehearsal Increases the Perceptual Span for Notation. Music Perception, 2009, 26, 303-320.	1.1	15
94	Feedback associated with expectation for larger-reward improves visuospatial working memory performances in children with ADHD. Developmental Cognitive Neuroscience, 2015, 14, 38-49.	4.0	15
95	A longitudinal neuroimaging dataset on arithmetic processing in school children. Scientific Data, 2019, 6, 190040.	5.3	15
96	Onset and Rime Structure Influences Naming but Not Early Word Identification in Children and Adults. Scientific Studies of Reading, 2002, 6, 1-23.	2.0	14
97	Changes in Task-Related Functional Connectivity across Multiple Spatial Scales Are Related to Reading Performance. PLoS ONE, 2013, 8, e59204.	2.5	14
98	Developmental differences in the influence of phonological similarity on spoken word processing in Mandarin Chinese. Brain and Language, 2014, 138, 38-50.	1.6	14
99	Longitudinal Task-Related Functional Connectivity Changes Predict Reading Development. Frontiers in Psychology, 2018, 9, 1754.	2.1	14
100	Automatic semantic influence on early visual word recognition in the ventral occipito-temporal cortex. Neuropsychologia, 2019, 133, 107188.	1.6	14
101	Temporo-parietal connectivity uniquely predicts reading change from childhood to adolescence. NeuroImage, 2016, 142, 126-134.	4.2	13
102	Lack of improvement in multiplication is associated with reverting from verbal retrieval to numerical operations. NeuroImage, 2018, 183, 859-871.	4.2	13
103	Structural correlates of literacy difficulties in the second language: Evidence from Mandarin-speaking children learning English. NeuroImage, 2018, 179, 288-297.	4.2	13
104	Temporo-frontal activation during phonological processing predicts gains in arithmetic facts in young children. Developmental Cognitive Neuroscience, 2019, 40, 100735.	4.0	13
105	Finger Representation and Finger-Based Strategies in the Acquisition of Number Meaning and Arithmetic. , 2016, , 109-139.		12
106	Parietotemporal Stimulation Affects Acquisition of Novel Grapheme-Phoneme Mappings in Adult Readers. Frontiers in Human Neuroscience, 2018, 12, 109.	2.0	12
107	Reciprocal relations between reading skill and the neural basis of phonological awareness in 7- to 9-year-old children. NeuroImage, 2021, 236, 118083.	4.2	12
108	A longitudinal neuroimaging dataset on multisensory lexical processing in school-aged children. Scientific Data, 2019, 6, 329.	5.3	11

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109	Neural correlates of priming effects in children during spoken word processing with orthographic demands. Brain and Language, 2010, 114, 80-89.	1.6	10
110	Brain activation during phonological and semantic processing of Chinese characters in deaf signers. Frontiers in Human Neuroscience, 2014, 8, 211.	2.0	10
111	Distributed neural representations of logical arguments in schoolâ€age children. Human Brain Mapping, 2015, 36, 996-1009.	3.6	10
112	Neural correlates of the lexicality effect in children. Brain and Language, 2017, 175, 64-70.	1.6	10
113	Developmental changes of association strength and categorical relatedness on semantic processing in the brain. Brain and Language, 2019, 189, 10-19.	1.6	9
114	Both frontal and temporal cortex exhibit phonological and semantic specialization during spoken language processing in 7â€•to 8â€•yearâ€•old children. Human Brain Mapping, 2021, 42, 3534-3546.	3.6	9
115	Developmental changes in the neural influence of sublexical information on semantic processing. Neuropsychologia, 2015, 73, 25-34.	1.6	8
116	Syntactic and Semantic Specialization and Integration in 5- to 6-Year-Old Children during Auditory Sentence Processing. Journal of Cognitive Neuroscience, 2020, 32, 36-49.	2.3	8
117	Developmental differences in neural connectivity for semantic processing in youths with autism. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2021, 62, 1090-1099.	5.2	8
118	A longitudinal neuroimaging dataset on language processing in children ages 5, 7, and 9 years old. Scientific Data, 2022, 9, 4.	5.3	8
119	Large grain instruction and phonological awareness skill influence rime sensitivity, processing speed, and early decoding skill in adult L2 learners. Reading and Writing, 2015, 28, 917-938.	1.7	7
120	Attitudes Toward Math Are Differentially Related to the Neural Basis of Multiplication Depending on Math Skill. Learning Disability Quarterly, 2020, 43, 179-191.	1.3	7
121	Functional parcellation of the right cerebellar lobule VI in children with normal or impaired reading. Neuropsychologia, 2020, 148, 107630.	1.6	7
122	Letter fluency in 7-8-year-old children is related to the anterior, but not posterior, ventral occipito-temporal cortex during an auditory phonological task. Developmental Cognitive Neuroscience, 2021, 47, 100898.	4.0	7
123	Neurocognitive mechanisms explaining the role of math attitudes in predicting childrenâ€™s improvement in multiplication skill. Cognitive, Affective and Behavioral Neuroscience, 2021, 21, 917-935.	2.0	7
124	Effect of Handwriting on Visual Word Recognition in Chinese Bilingual Children and Adults. Frontiers in Psychology, 2021, 12, 628160.	2.1	7
125	Reading Disability in Chinese Children Learning English as an L2. Child Development, 2021, 92, e126-e142.	3.0	6
126	Neurocognitive basis of deductive reasoning in children varies with parental education. Human Brain Mapping, 2021, 42, 3396-3410.	3.6	6

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127	Early Engagement of Parietal Cortex for Subtraction Solving Predicts Longitudinal Gains in Behavioral Fluency in Children. Frontiers in Human Neuroscience, 2020, 14, 163.	2.0	5
128	Semantic and syntactic specialization during auditory sentence processing in 7-8-year-old children. Cortex, 2021, 145, 169-186.	2.4	5
129	Children With Reading Difficulty Rely on Unimodal Neural Processing for Phonemic Awareness. Frontiers in Human Neuroscience, 2019, 13, 390.	2.0	4
130	A neuroimaging dataset on working memory and reward processing in children with and without ADHD. Data in Brief, 2020, 31, 105801.	1.0	4
131	Gray matter volume in left intraparietal sulcus predicts longitudinal gains in subtraction skill in elementary school. NeuroImage, 2021, 235, 118021.	4.2	4
132	Left and Right Arcuate Fasciculi Are Uniquely Related to Word Reading Skills in Chinese-English Bilingual Children. Neurobiology of Language (Cambridge, Mass), 2022, 3, 109-131.	3.1	4
133	Early Phonological Neural Specialization Predicts Later Growth in Word Reading Skills. Frontiers in Human Neuroscience, 2021, 15, 674119.	2.0	4
134	Temporal cortex activation explains childrenâ€™s improvement in math attitudes. Child Development, 2022, 93, 1012-1029.	3.0	4
135	A neuroimaging dataset on orthographic, phonological and semantic word processing in school-aged children. Data in Brief, 2020, 28, 105091.	1.0	2
136	A neuroimaging dataset of deductive reasoning in school-aged children. Data in Brief, 2020, 33, 106405.	1.0	2
137	Neuro-cognitive development of semantic and syntactic bootstrapping in 6- to 7.5-year-old children. NeuroImage, 2021, 241, 118416.	4.2	2
138	A neuroimaging dataset on response inhibition and selective attention in adults and children with and without ADHD. Data in Brief, 2021, 37, 107158.	1.0	0
139	Developmental differences of large-scale functional brain networks for spoken word processing. Brain and Language, 2022, 231, 105149.	1.6	0