

Karl Magnus Petersson

List of Publications by Year in descending order

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147
papers

13,437
citations

22099

59
h-index

23472

111
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152
all docs

152
docs citations

152
times ranked

12341
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramodal Sentence Processing in the Human Brain: fMRI Evidence for the Influence of Syntactic Complexity in More Than 200 Participants. <i>Neurobiology of Language</i> (Cambridge, Mass), 2022, 3, 575-598.	1.7	7
2	Distinguishing Syntactic Operations in the Brain: Dependency and Phrase-Structure Parsing. <i>Neurobiology of Language</i> (Cambridge, Mass), 2021, 2, 152-175.	1.7	19
3	Neuronal spike-rate adaptation supports working memory in language processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20881-20889.	3.3	23
4	Semantic unification modulates N400 and BOLD signal change in the brain: A simultaneous EEG-fMRI study. <i>Journal of Neurolinguistics</i> , 2019, 52, 100855.	0.5	19
5	Modality effects in implicit artificial grammar learning: An EEG study. <i>Brain Research</i> , 2018, 1687, 50-59.	1.1	6
6	Implicit sequence learning is preserved in dyslexic children. <i>Annals of Dyslexia</i> , 2018, 68, 1-14.	1.2	13
7	Distinguishing cause from effect “ many deficits associated with developmental dyslexia may be a consequence of reduced and suboptimal reading experience. <i>Language, Cognition and Neuroscience</i> , 2018, 33, 333-350.	0.7	67
8	Encoding symbolic sequences with spiking neural reservoirs. , 2018, , .		9
9	The effects of ordinal load on incidental temporal learning. <i>Quarterly Journal of Experimental Psychology</i> , 2017, 70, 664-674.	0.6	2
10	The P600 in Implicit Artificial Grammar Learning. <i>Cognitive Science</i> , 2017, 41, 137-157.	0.8	16
11	Disentangling stimulus plausibility and contextual congruency: Electro-physiological evidence for differential cognitive dynamics. <i>Neuropsychologia</i> , 2017, 96, 150-163.	0.7	16
12	Broca’s region: A causal role in implicit processing of grammars with crossed non-adjacent dependencies. <i>Cognition</i> , 2017, 164, 188-198.	1.1	23
13	Eye movements in implicit artificial grammar learning.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2017, 43, 1387-1402.	0.7	3
14	When the Eyes No Longer Lead: Familiarity and Length Effects on Eye-Voice Span. <i>Frontiers in Psychology</i> , 2016, 7, 1720.	1.1	7
15	Too little or too much? Parafoveal preview benefits and parafoveal load costs in dyslexic adults. <i>Annals of Dyslexia</i> , 2016, 66, 187-201.	1.2	16
16	Knowing that strawberries are red and seeing red strawberries: the interaction between surface colour and colour knowledge information. <i>Journal of Cognitive Psychology</i> , 2016, 28, 641-657.	0.4	4
17	Visual naming deficits in dyslexia: An ERP investigation of different processing domains. <i>Neuropsychologia</i> , 2016, 91, 61-76.	0.7	17
18	fMRI Syntactic and Lexical Repetition Effects Reveal the Initial Stages of Learning a New Language. <i>Journal of Neuroscience</i> , 2016, 36, 6872-6880.	1.7	39

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19	Rapid automatized naming and reading performance: A meta-analysis.. Journal of Educational Psychology, 2015, 107, 868-883.	2.1	195
20	Lexical and sublexical orthographic processing: An ERP study with skilled and dyslexic adult readers. Brain and Language, 2015, 141, 16-27.	0.8	44
21	Implicit structured sequence learning: an fMRI study of the structural mere-exposure effect. Frontiers in Psychology, 2014, 5, 41.	1.1	20
22	You know when: Event-related potentials and theta/beta power indicate boundary prediction in music. Journal of Integrative Neuroscience, 2014, 13, 19-34.	0.8	6
23	Dyslexia heterogeneity: cognitive profiling of Portuguese children with dyslexia. Reading and Writing, 2014, 27, 1529-1545.	1.0	21
24	Lexical and Phonological Processes in Dyslexic Readers: Evidence from a Visual Lexical Decision Task. Dyslexia, 2014, 20, 38-53.	0.8	12
25	Musical phrase boundaries, wrap-up and the closure positive shift. Brain Research, 2014, 1585, 99-107.	1.1	8
26	Beyond the Language Given: The Neural Correlates of Inferring Speaker Meaning. Cerebral Cortex, 2014, 24, 2572-2578.	1.6	100
27	Phonological markers of information structure: An fMRI study. Neuropsychologia, 2014, 58, 64-74.	0.7	9
28	The suppression of repetition enhancement: A review of fMRI studies. Neuropsychologia, 2013, 51, 59-66.	0.7	187
29	Mindfulness reduces habitual responding based on implicit knowledge: Evidence from artificial grammar learning. Consciousness and Cognition, 2013, 22, 833-845.	0.8	25
30	Mean-based neural coding of voices. NeuroImage, 2013, 79, 351-360.	2.1	28
31	Syntactic priming and the lexical boost effect during sentence production and sentence comprehension: An fMRI study. Brain and Language, 2013, 124, 174-183.	0.8	89
32	The Interface Between Language and Attention: Prosodic Focus Marking Recruits a General Attention Network in Spoken Language Comprehension. Cerebral Cortex, 2013, 23, 1836-1848.	1.6	84
33	Sleep Promotes the Extraction of Grammatical Rules. PLoS ONE, 2013, 8, e65046.	1.1	41
34	The neurobiology of syntax: beyond string sets. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1971-1983.	1.8	61
35	Processing multiple non-adjacent dependencies: evidence from sequence learning. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2065-2076.	1.8	38
36	Shared Syntax in Language Production and Language Comprehension--An fMRI Study. Cerebral Cortex, 2012, 22, 1662-1670.	1.6	234

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37	Electrophysiological evidence for colour effects on the naming of colour diagnostic and noncolour diagnostic objects. <i>Visual Cognition</i> , 2012, 20, 1164-1185.	0.9	9
38	Literacy: Exploring working memory systems. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2012, 34, 369-377.	0.8	20
39	Electrophysiological correlates of impaired reading in dyslexic pre-adolescent children. <i>Brain and Cognition</i> , 2012, 79, 79-88.	0.8	59
40	EEG Alpha Power Modulation of fMRI Resting-State Connectivity. <i>Brain Connectivity</i> , 2012, 2, 254-264.	0.8	164
41	What artificial grammar learning reveals about the neurobiology of syntax. <i>Brain and Language</i> , 2012, 120, 83-95.	0.8	158
42	Implicit Acquisition of Grammars With Crossed and Nested Non-Adjacent Dependencies: Investigating the Push-Down Stack Model. <i>Cognitive Science</i> , 2012, 36, 1078-1101.	0.8	44
43	Object Naming in Dyslexic Children: More Than a Phonological Deficit. <i>Journal of General Psychology</i> , 2011, 138, 215-228.	1.6	6
44	The interaction between surface color and color knowledge: Behavioral and electrophysiological evidence. <i>Brain and Cognition</i> , 2011, 78, 28-37.	0.8	12
45	Neuronal Dynamics Underlying High- and Low-Frequency EEG Oscillations Contribute Independently to the Human BOLD Signal. <i>Neuron</i> , 2011, 69, 572-583.	3.8	408
46	Neural correlates of language comprehension in autism spectrum disorders: When language conflicts with world knowledge. <i>Neuropsychologia</i> , 2011, 49, 1095-1104.	0.7	43
47	The role of color information on object recognition: A review and meta-analysis. <i>Acta Psychologica</i> , 2011, 138, 244-253.	0.7	117
48	Component Processes Subserving Rapid Automatized Naming in Dyslexic and Non-dyslexic Readers. <i>Dyslexia</i> , 2011, 17, 242-255.	0.8	34
49	From Reference to Sense: How the Brain Encodes Meaning for Speaking. <i>Frontiers in Psychology</i> , 2011, 2, 384.	1.1	13
50	The influence of surface color information and color knowledge information in object recognition. <i>American Journal of Psychology</i> , 2011, 124, 437-446.	0.5	0
51	Implicit Artificial Syntax Processing: Genes, Preference, and Bounded Recursion. <i>Biolinguistics</i> , 2011, 5, 105-132.	0.6	27
52	The Neuropharmacology of Implicit Learning. <i>Current Neuropharmacology</i> , 2010, 8, 367-381.	1.4	12
53	The influence of surface color information and color knowledge information in object recognition. <i>American Journal of Psychology</i> , 2010, 123, 437-446.	0.5	18
54	A prefrontal non-opioid mechanism in placebo analgesia. <i>Pain</i> , 2010, 150, 59-65.	2.0	157

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55	Age-effects on associative object–location memory. <i>Brain Research</i> , 2010, 1315, 100-110.	1.1	23
56	Artificial Language Learning in Adults and Children. <i>Language Learning</i> , 2010, 60, 188-220.	1.4	49
57	Cortical Brain Regions Associated with Color Processing: An fMRI Study. <i>Open Neuroimaging Journal</i> , 2010, 4, 164-173.	0.2	39
58	Semantic, Factual, and Social Language Comprehension in Adolescents with Autism: An FMRI Study. <i>Cerebral Cortex</i> , 2010, 20, 1937-1945.	1.6	100
59	Visual rapid naming and phonological abilities: Different subtypes in dyslexic children. <i>International Journal of Psychology</i> , 2010, 45, 443-452.	1.7	38
60	Effective connectivity of cortical and subcortical regions during unification of sentence structure. <i>NeuroImage</i> , 2010, 52, 1633-1644.	2.1	48
61	Neural mechanisms for voice recognition. <i>NeuroImage</i> , 2010, 52, 1528-1540.	2.1	143
62	The Influence of Color Information on the Recognition of Color Diagnostic and Noncolor Diagnostic Objects. <i>Journal of General Psychology</i> , 2010, 138, 49-65.	1.6	20
63	Synaesthetic Colour in the Brain: Beyond Colour Areas. A Functional Magnetic Resonance Imaging Study of Synaesthetes and Matched Controls. <i>PLoS ONE</i> , 2010, 5, e12074.	1.1	55
64	Neural correlates of pragmatic language comprehension in autism spectrum disorders. <i>Brain</i> , 2009, 132, 1941-1952.	3.7	99
65	Unification of Speaker and Meaning in Language Comprehension: An fMRI Study. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 2085-2099.	1.1	66
66	When Elephants Fly: Differential Sensitivity of Right and Left Inferior Frontal Gyri to Discourse and World Knowledge. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 2358-2368.	1.1	94
67	Retrieval and Unification of Syntactic Structure in Sentence Comprehension: an fMRI Study Using Word-Category Ambiguity. <i>Cerebral Cortex</i> , 2009, 19, 1493-1503.	1.6	231
68	Artificial grammar recognition using spiking neural networks. <i>BMC Neuroscience</i> , 2009, 10, .	0.8	0
69	Dissecting medial temporal lobe contributions to item and associative memory formation. <i>NeuroImage</i> , 2009, 46, 874-881.	2.1	46
70	Trial-by-trial coupling between EEG and BOLD identifies networks related to alpha and theta EEG power increases during working memory maintenance. <i>NeuroImage</i> , 2009, 44, 1224-1238.	2.1	313
71	Neural correlates of strategic memory retrieval: Differentiating between spatial–associative and temporal–associative strategies. <i>Human Brain Mapping</i> , 2008, 29, 1068-1079.	1.9	27
72	Implicit Learning and Dyslexia. <i>Annals of the New York Academy of Sciences</i> , 2008, 1145, 132-150.	1.8	51

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73	Progesterone selectively increases amygdala reactivity in women. <i>Molecular Psychiatry</i> , 2008, 13, 325-333.	4.1	220
74	Instruction effects in implicit artificial grammar learning: A preference for grammaticality. <i>Brain Research</i> , 2008, 1221, 80-92.	1.1	23
75	The inferior frontal cortex in artificial syntax processing: An rTMS study. <i>Brain Research</i> , 2008, 1224, 69-78.	1.1	65
76	Frontal theta EEG activity correlates negatively with the default mode network in resting state. <i>International Journal of Psychophysiology</i> , 2008, 67, 242-251.	0.5	348
77	Contributions of the medial temporal lobe to declarative memory retrieval: Manipulating the amount of contextual retrieval. <i>Learning and Memory</i> , 2008, 15, 611-617.	0.5	26
78	On Cognition, Structured Sequence Processing, and Adaptive Dynamical Systems. , 2008, , .		6
79	Memory trace stabilization leads to large-scale changes in the retrieval network: A functional MRI study on associative memory. <i>Learning and Memory</i> , 2007, 14, 472-479.	0.5	60
80	How Progesterone Impairs Memory for Biologically Salient Stimuli in Healthy Young Women. <i>Journal of Neuroscience</i> , 2007, 27, 11416-11423.	1.7	112
81	The impact of reading and writing skills on a visuo-motor integration task: A comparison between illiterate and literate subjects. <i>Journal of the International Neuropsychological Society</i> , 2007, 13, 359-64.	1.2	29
82	On sense and reference: Examining the functional neuroanatomy of referential processing. <i>NeuroImage</i> , 2007, 37, 993-1004.	2.1	84
83	Probing the transformation of discontinuous associations into episodic memory: An event-related fMRI study. <i>NeuroImage</i> , 2007, 38, 212-222.	2.1	55
84	Sustained and Transient Neural Modulations in Prefrontal Cortex Related to Declarative Long-Term Memory, Working Memory, and Attention. <i>Cortex</i> , 2007, 43, 22-37.	1.1	75
85	Semantic interference on a phonological task in illiterate subjects. <i>Scandinavian Journal of Psychology</i> , 2007, 48, 69-74.	0.8	11
86	Literacy: a cultural influence on functional left-right differences in the inferior parietal cortex. <i>European Journal of Neuroscience</i> , 2007, 26, 791-799.	1.2	67
87	Probing the neural correlates of associative memory formation: A parametrically analyzed event-related functional MRI study. <i>Brain Research</i> , 2007, 1142, 159-168.	1.1	38
88	Disruption of order information by irrelevant items: A serial recognition paradigm. <i>Acta Psychologica</i> , 2007, 124, 356-369.	0.7	12
89	Neural correlates of artificial syntactic structure classification. <i>NeuroImage</i> , 2006, 32, 956-967.	2.1	108
90	Predictability modulates the affective and sensory-discriminative neural processing of pain. <i>NeuroImage</i> , 2006, 32, 1804-1814.	2.1	177

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91	The right hippocampus participates in short-term memory maintenance of object location associations. <i>NeuroImage</i> , 2006, 33, 374-382.	2.1	183
92	Interaction between a verbal working memory network and the medial temporal lobe. <i>NeuroImage</i> , 2006, 33, 1207-1217.	2.1	24
93	Color makes a difference: Two-dimensional object naming in literate and illiterate subjects. <i>Brain and Cognition</i> , 2006, 60, 49-54.	0.8	66
94	Characteristics of Illiterate and Literate Cognitive Processing: Implications of Brain Behavior Co-Constructivism. , 2006, , 279-305.		13
95	Cognitive and neural plasticity in aging: General and task-specific limitations. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 864-871.	2.9	120
96	Reduced functional brain activity response in cognitively intact apolipoprotein E ϵ 4 carriers. <i>Brain</i> , 2006, 129, 1240-1248.	3.7	133
97	Declarative memory consolidation in humans: A prospective functional magnetic resonance imaging study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 756-761.	3.3	467
98	Towards an explicit account of implicit learning. <i>Current Opinion in Neurology</i> , 2005, 18, 435-441.	1.8	76
99	On the relevance of the neurobiological analogue of the finite-state architecture. <i>Neurocomputing</i> , 2005, 65-66, 825-832.	3.5	16
100	The role of precuneus and left inferior frontal cortex during source memory episodic retrieval. <i>NeuroImage</i> , 2005, 27, 824-834.	2.1	322
101	The Effects of Literacy and Education on the Quantitative and Qualitative Aspects of Semantic Verbal Fluency. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2004, 26, 266-277.	0.8	87
102	Integration of Word Meaning and World Knowledge in Language Comprehension. <i>Science</i> , 2004, 304, 438-441.	6.0	939
103	Context-dependent Deactivation of the Amygdala during Pain. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 1289-1301.	1.1	90
104	Artificial syntactic violations activate Broca's region. <i>Cognitive Science</i> , 2004, 28, 383-407.	0.8	46
105	Artificial syntactic violations activate Broca's region. <i>Cognitive Science</i> , 2004, 28, 383-407.	0.8	90
106	Interaction between the Human Hippocampus and the Caudate Nucleus during Route Recognition. <i>Neuron</i> , 2004, 43, 427-435.	3.8	212
107	Brainstem involvement in the initial response to pain. <i>NeuroImage</i> , 2004, 22, 995-1005.	2.1	75
108	The irrelevant speech effect and working memory load. <i>NeuroImage</i> , 2004, 22, 1107-1116.	2.1	36

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109	Age differences in neural correlates of route encoding and route recognition. <i>NeuroImage</i> , 2004, 22, 1503-1514.	2.1	80
110	Fear and the Amygdala: Manipulation of Awareness Generates Differential Cerebral Responses to Phobic and Fear-Relevant (but Nonfeared) Stimuli. <i>Emotion</i> , 2004, 4, 340-353.	1.5	148
111	Educational level, socioeconomic status and aphasia research: A comment on Connor et al. (2001)â€™Effect of socioeconomic status on aphasia severity and recovery. <i>Brain and Language</i> , 2003, 87, 449-452.	0.8	8
112	Common prefrontal activations during working memory, episodic memory, and semantic memory. <i>Neuropsychologia</i> , 2003, 41, 371-377.	0.7	215
113	The irrelevant speech effect: a PET study. <i>Neuropsychologia</i> , 2003, 41, 1899-1911.	0.7	37
114	Instruction-specific brain activations during episodic encoding. <i>NeuroImage</i> , 2003, 20, 1795-1810.	2.1	14
115	A Sociodemographic and Neuropsychological Characterization of an Illiterate Population. <i>Applied Neuropsychology</i> , 2003, 10, 191-204.	1.5	50
116	Isolating the retrieval of imagined pictures during episodic memory: activation of the left precuneus and left prefrontal cortex. <i>NeuroImage</i> , 2003, 20, 1934-1943.	2.1	176
117	Isolating the retrieval of imagined pictures during episodic memory: activation of the left precuneus and left prefrontal cortex. <i>NeuroImage</i> , 2003, 20, 1934-1934.	2.1	16
118	Neural correlates of training-related memory improvement in adulthood and aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13728-13733.	3.3	233
119	A Regression Analysis Study of the Primary Somatosensory Cortex during Pain. <i>NeuroImage</i> , 2002, 16, 1142-1150.	2.1	34
120	On the Effects of Spatial Filteringâ€™A Comparative fMRI Study of Episodic Memory Encoding at High and Low Resolution. <i>NeuroImage</i> , 2002, 16, 977-984.	2.1	39
121	Placebo and Opioid Analgesiaâ€“ Imaging a Shared Neuronal Network. <i>Science</i> , 2002, 295, 1737-1740.	6.0	1,305
122	Brain imaging of human memory systems: between-systems similarities and within-system differences. <i>Cognitive Brain Research</i> , 2002, 13, 281-292.	3.3	118
123	Formal Schooling Influences Two- but Not Three-Dimensional Naming Skills. <i>Brain and Cognition</i> , 2001, 47, 397-411.	0.8	87
124	Reactivation of Motor Brain Areas during Explicit Memory for Actions. <i>NeuroImage</i> , 2001, 14, 521-528.	2.1	182
125	Functional MRI with reduced susceptibility artifact: high-resolution mapping of episodic memory encoding. <i>NeuroReport</i> , 2001, 12, 1415-1420.	0.6	31
126	A 4D approach to the analysis of functional brain images: Application to FMRI data. <i>Human Brain Mapping</i> , 2001, 13, 185-198.	1.9	8

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127	Learning related modulation of functional retrieval networks in man. <i>Scandinavian Journal of Psychology</i> , 2001, 42, 197-216.	0.8	13
128	Cognitive processing in literate and illiterate subjects: A review of some recent behavioral and functional neuroimaging data. <i>Scandinavian Journal of Psychology</i> , 2001, 42, 251-267.	0.8	107
129	Selective enhancement of recall through plasticity modulation in an autoassociative memory. <i>Neurocomputing</i> , 2001, 38-40, 867-873.	3.5	14
130	A palimpsest memory based on an incremental Bayesian learning rule. <i>Neurocomputing</i> , 2000, 32-33, 987-994.	3.5	19
131	Functional Maps and Brain Networks. , 2000, , 111-139.		7
132	Language Processing Modulated by Literacy: A Network Analysis of Verbal Repetition in Literate and Illiterate Subjects. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 364-382.	1.1	151
133	Pain-related cerebral activation is altered by a distracting cognitive task. <i>Pain</i> , 2000, 85, 19-30.	2.0	363
134	Tickling Expectations: Neural Processing in Anticipation of a Sensory Stimulus. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 691-703.	1.1	169
135	On Forgetful Attractor Network Memories. <i>Perspectives in Neural Computing</i> , 2000, , 54-62.	0.1	0
136	Dynamic changes in the functional anatomy of the human brain during recall of abstract designs related to practice. <i>Neuropsychologia</i> , 1999, 37, 567-587.	0.7	51
137	Learning-related effects and functional neuroimaging. , 1999, 7, 234-243.		20
138	A PET activation study of dynamic mechanical allodynia in patients with mononeuropathy. <i>Pain</i> , 1999, 83, 459-470.	2.0	150
139	Effective Auditory Verbal Encoding Activates the Left Prefrontal and the Medial Temporal Lobes: A Generalization to Illiterate Subjects. <i>NeuroImage</i> , 1999, 10, 45-54.	2.1	36
140	Statistical limitations in functional neuroimaging. I. Non-inferential methods and statistical models. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999, 354, 1239-1260.	1.8	112
141	Statistical limitations in functional neuroimaging II. Signal detection and statistical inference. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999, 354, 1261-1281.	1.8	154
142	Comments on a Monte Carlo Approach to the Analysis of Functional Neuroimaging Data. <i>NeuroImage</i> , 1998, 8, 108-112.	2.1	9
143	Coexistence of Attention-Based Facilitation and Inhibition in the Human Cortex. <i>NeuroImage</i> , 1998, 7, 23-29.	2.1	104
144	The illiterate brain. Learning to read and write during childhood influences the functional organization of the adult brain. <i>Brain</i> , 1998, 121, 1053-1063.	3.7	304

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145	Differences in verbal repetition in literate and illiterate subjects: A network analysis. NeuroImage, 1998, 7, S218.	2.1	1
146	A Dynamic Role of the Medial Temporal Lobe during Retrieval of Declarative Memory in Man. NeuroImage, 1997, 6, 1-11.	2.1	61
147	Language and Literacy from a Cognitive Neuroscience Perspective. , 0, , 152-182.		19