

# Karl Magnus Petersson

## List of Publications by Year in descending order

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148  
papers

13,437  
citations

22153

59  
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23533

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.	3.1	7
2	Distinguishing Syntactic Operations in the Brain: Dependency and Phrase-Structure Parsing. <i>Neurobiology of Language</i> (Cambridge, Mass ), 2021, 2, 152-175.	3.1	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.	7.1	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.	1.1	19
5	Modality effects in implicit artificial grammar learning: An EEG study. <i>Brain Research</i> , 2018, 1687, 50-59.	2.2	6
6	Implicit sequence learning is preserved in dyslexic children. <i>Annals of Dyslexia</i> , 2018, 68, 1-14.	1.7	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.	1.2	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.	1.1	2
10	The P600 in Implicit Artificial Grammar Learning. <i>Cognitive Science</i> , 2017, 41, 137-157.	1.7	16
11	Disentangling stimulus plausibility and contextual congruency: Electro-physiological evidence for differential cognitive dynamics. <i>Neuropsychologia</i> , 2017, 96, 150-163.	1.6	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.	2.2	23
13	Eye movements in implicit artificial grammar learning.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2017, 43, 1387-1402.	0.9	3
14	When the Eyes No Longer Lead: Familiarity and Length Effects on Eye-Voice Span. <i>Frontiers in Psychology</i> , 2016, 7, 1720.	2.1	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.	1.7	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.	0.9	4
17	Visual naming deficits in dyslexia: An ERP investigation of different processing domains. <i>Neuropsychologia</i> , 2016, 91, 61-76.	1.6	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.	3.6	39

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19	Rapid automatized naming and reading performance: A meta-analysis.. Journal of Educational Psychology, 2015, 107, 868-883.	2.9	195
20	Lexical and sublexical orthographic processing: An ERP study with skilled and dyslexic adult readers. Brain and Language, 2015, 141, 16-27.	1.6	44
21	Implicit structured sequence learning: an fMRI study of the structural mere-exposure effect. Frontiers in Psychology, 2014, 5, 41.	2.1	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.	1.7	6
23	Dyslexia heterogeneity: cognitive profiling of Portuguese children with dyslexia. Reading and Writing, 2014, 27, 1529-1545.	1.7	21
24	Lexical and Phonological Processes in Dyslexic Readers: Evidence from a Visual Lexical Decision Task. Dyslexia, 2014, 20, 38-53.	1.5	12
25	Musical phrase boundaries, wrap-up and the closure positive shift. Brain Research, 2014, 1585, 99-107.	2.2	8
26	Beyond the Language Given: The Neural Correlates of Inferring Speaker Meaning. Cerebral Cortex, 2014, 24, 2572-2578.	2.9	100
27	Phonological markers of information structure: An fMRI study. Neuropsychologia, 2014, 58, 64-74.	1.6	9
28	The suppression of repetition enhancement: A review of fMRI studies. Neuropsychologia, 2013, 51, 59-66.	1.6	187
29	Mindfulness reduces habitual responding based on implicit knowledge: Evidence from artificial grammar learning. Consciousness and Cognition, 2013, 22, 833-845.	1.5	25
30	Mean-based neural coding of voices. NeuroImage, 2013, 79, 351-360.	4.2	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.	1.6	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.	2.9	84
33	Sleep Promotes the Extraction of Grammatical Rules. PLoS ONE, 2013, 8, e65046.	2.5	41
34	The neurobiology of syntax: beyond string sets. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1971-1983.	4.0	61
35	Processing multiple non-adjacent dependencies: evidence from sequence learning. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2065-2076.	4.0	38
36	Shared Syntax in Language Production and Language Comprehension--An fMRI Study. Cerebral Cortex, 2012, 22, 1662-1670.	2.9	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.	1.6	9
38	Literacy: Exploring working memory systems. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2012, 34, 369-377.	1.3	20
39	Electrophysiological correlates of impaired reading in dyslexic pre-adolescent children. <i>Brain and Cognition</i> , 2012, 79, 79-88.	1.8	59
40	EEG Alpha Power Modulation of fMRI Resting-State Connectivity. <i>Brain Connectivity</i> , 2012, 2, 254-264.	1.7	164
41	What artificial grammar learning reveals about the neurobiology of syntax. <i>Brain and Language</i> , 2012, 120, 83-95.	1.6	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.	1.7	44
43	Object Naming in Dyslexic Children: More Than a Phonological Deficit. <i>Journal of General Psychology</i> , 2011, 138, 215-228.	2.8	6
44	The interaction between surface color and color knowledge: Behavioral and electrophysiological evidence. <i>Brain and Cognition</i> , 2011, 78, 28-37.	1.8	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.	8.1	408
46	Neural correlates of language comprehension in autism spectrum disorders: When language conflicts with world knowledge. <i>Neuropsychologia</i> , 2011, 49, 1095-1104.	1.6	43
47	The role of color information on object recognition: A review and meta-analysis. <i>Acta Psychologica</i> , 2011, 138, 244-253.	1.5	117
48	Component Processes Subserving Rapid Automatized Naming in Dyslexic and Non-dyslexic Readers. <i>Dyslexia</i> , 2011, 17, 242-255.	1.5	34
49	From Reference to Sense: How the Brain Encodes Meaning for Speaking. <i>Frontiers in Psychology</i> , 2011, 2, 384.	2.1	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.	0.3	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.	2.9	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.	0.3	18
54	A prefrontal non-opioid mechanism in placebo analgesia. <i>Pain</i> , 2010, 150, 59-65.	4.2	157

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55	Age-effects on associative objectâ€location memory. Brain Research, 2010, 1315, 100-110.	2.2	23
56	Artificial Language Learning in Adults and Children. Language Learning, 2010, 60, 188-220.	2.7	49
57	Cortical Brain Regions Associated with Color Processing: An FMRI Study. Open Neuroimaging Journal, 2010, 4, 164-173.	0.2	39
58	Semantic, Factual, and Social Language Comprehension in Adolescents with Autism: An FMRI Study. Cerebral Cortex, 2010, 20, 1937-1945.	2.9	100
59	Visual rapid naming and phonological abilities: Different subtypes in dyslexic children. International Journal of Psychology, 2010, 45, 443-452.	2.8	38
60	Effective connectivity of cortical and subcortical regions during unification of sentence structure. NeuroImage, 2010, 52, 1633-1644.	4.2	48
61	Neural mechanisms for voice recognition. NeuroImage, 2010, 52, 1528-1540.	4.2	143
62	The Influence of Color Information on the Recognition of Color Diagnostic and Noncolor Diagnostic Objects. Journal of General Psychology, 2010, 138, 49-65.	2.8	20
63	Synaesthetic Colour in the Brain: Beyond Colour Areas. A Functional Magnetic Resonance Imaging Study of Synaesthetes and Matched Controls. PLoS ONE, 2010, 5, e12074.	2.5	55
64	Neural correlates of pragmatic language comprehension in autism spectrum disorders. Brain, 2009, 132, 1941-1952.	7.6	99
65	Unification of Speaker and Meaning in Language Comprehension: An fMRI Study. Journal of Cognitive Neuroscience, 2009, 21, 2085-2099.	2.3	66
66	When Elephants Fly: Differential Sensitivity of Right and Left Inferior Frontal Gyri to Discourse and World Knowledge. Journal of Cognitive Neuroscience, 2009, 21, 2358-2368.	2.3	94
67	Retrieval and Unification of Syntactic Structure in Sentence Comprehension: an fMRI Study Using Word-Category Ambiguity. Cerebral Cortex, 2009, 19, 1493-1503.	2.9	231
68	Artificial grammar recognition using spiking neural networks. BMC Neuroscience, 2009, 10, .	1.9	0
69	Dissecting medial temporal lobe contributions to item and associative memory formation. NeuroImage, 2009, 46, 874-881.	4.2	46
70	Trial-by-trial coupling between EEG and BOLD identifies networks related to alpha and theta EEG power increases during working memory maintenance. NeuroImage, 2009, 44, 1224-1238.	4.2	313
71	Neural correlates of strategic memory retrieval: Differentiating between spatialâ€associative and temporalâ€associative strategies. Human Brain Mapping, 2008, 29, 1068-1079.	3.6	27
72	Implicit Learning and Dyslexia. Annals of the New York Academy of Sciences, 2008, 1145, 132-150.	3.8	51

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73	Progesterone selectively increases amygdala reactivity in women. <i>Molecular Psychiatry</i> , 2008, 13, 325-333.	7.9	220
74	Instruction effects in implicit artificial grammar learning: A preference for grammaticality. <i>Brain Research</i> , 2008, 1221, 80-92.	2.2	23
75	The inferior frontal cortex in artificial syntax processing: An rTMS study. <i>Brain Research</i> , 2008, 1224, 69-78.	2.2	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.	1.0	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.	1.3	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.	1.3	60
80	How Progesterone Impairs Memory for Biologically Salient Stimuli in Healthy Young Women. <i>Journal of Neuroscience</i> , 2007, 27, 11416-11423.	3.6	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.	1.8	29
82	On sense and reference: Examining the functional neuroanatomy of referential processing. <i>NeuroImage</i> , 2007, 37, 993-1004.	4.2	84
83	Probing the transformation of discontinuous associations into episodic memory: An event-related fMRI study. <i>NeuroImage</i> , 2007, 38, 212-222.	4.2	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.	2.4	75
85	Semantic interference on a phonological task in illiterate subjects. <i>Scandinavian Journal of Psychology</i> , 2007, 48, 69-74.	1.5	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.	2.6	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.	2.2	38
88	Disruption of order information by irrelevant items: A serial recognition paradigm. <i>Acta Psychologica</i> , 2007, 124, 356-369.	1.5	12
89	Neural correlates of artificial syntactic structure classification. <i>NeuroImage</i> , 2006, 32, 956-967.	4.2	108
90	Predictability modulates the affective and sensory-discriminative neural processing of pain. <i>NeuroImage</i> , 2006, 32, 1804-1814.	4.2	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.	4.2	183
92	Interaction between a verbal working memory network and the medial temporal lobe. <i>NeuroImage</i> , 2006, 33, 1207-1217.	4.2	24
93	Color makes a difference: Two-dimensional object naming in literate and illiterate subjects. <i>Brain and Cognition</i> , 2006, 60, 49-54.	1.8	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.	6.1	120
96	Reduced functional brain activity response in cognitively intact apolipoprotein E $\epsilon$ 4 carriers. <i>Brain</i> , 2006, 129, 1240-1248.	7.6	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.	7.1	467
98	Towards an explicit account of implicit learning. <i>Current Opinion in Neurology</i> , 2005, 18, 435-441.	3.6	76
99	On the relevance of the neurobiological analogue of the finite-state architecture. <i>Neurocomputing</i> , 2005, 65-66, 825-832.	5.9	16
100	The role of precuneus and left inferior frontal cortex during source memory episodic retrieval. <i>NeuroImage</i> , 2005, 27, 824-834.	4.2	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.	1.3	87
102	Integration of Word Meaning and World Knowledge in Language Comprehension. <i>Science</i> , 2004, 304, 438-441.	12.6	939
103	Context-dependent Deactivation of the Amygdala during Pain. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 1289-1301.	2.3	90
104	Artificial syntactic violations activate Broca's region. <i>Cognitive Science</i> , 2004, 28, 383-407.	1.7	46
105	Artificial syntactic violations activate Broca's region. <i>Cognitive Science</i> , 2004, 28, 383-407.	1.7	90
106	Interaction between the Human Hippocampus and the Caudate Nucleus during Route Recognition. <i>Neuron</i> , 2004, 43, 427-435.	8.1	212
107	Brainstem involvement in the initial response to pain. <i>NeuroImage</i> , 2004, 22, 995-1005.	4.2	75
108	The irrelevant speech effect and working memory load. <i>NeuroImage</i> , 2004, 22, 1107-1116.	4.2	36

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109	Age differences in neural correlates of route encoding and route recognition. <i>NeuroImage</i> , 2004, 22, 1503-1514.	4.2	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.	1.8	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.	1.6	8
112	Common prefrontal activations during working memory, episodic memory, and semantic memory. <i>Neuropsychologia</i> , 2003, 41, 371-377.	1.6	215
113	The irrelevant speech effect: a PET study. <i>Neuropsychologia</i> , 2003, 41, 1899-1911.	1.6	37
114	Instruction-specific brain activations during episodic encoding. <i>NeuroImage</i> , 2003, 20, 1795-1810.	4.2	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.	4.2	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.	4.2	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.	7.1	233
119	A Regression Analysis Study of the Primary Somatosensory Cortex during Pain. <i>NeuroImage</i> , 2002, 16, 1142-1150.	4.2	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.	4.2	39
121	Placebo and Opioid Analgesiaâ€”Imaging a Shared Neuronal Network. <i>Science</i> , 2002, 295, 1737-1740.	12.6	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.	3.0	118
123	A Bayesian attractor network with incremental learning. <i>Network: Computation in Neural Systems</i> , 2002, 13, 179-194.	3.6	19
124	Formal Schooling Influences Two- but Not Three-Dimensional Naming Skills. <i>Brain and Cognition</i> , 2001, 47, 397-411.	1.8	87
125	Reactivation of Motor Brain Areas during Explicit Memory for Actions. <i>NeuroImage</i> , 2001, 14, 521-528.	4.2	182
126	Functional MRI with reduced susceptibility artifact: high-resolution mapping of episodic memory encoding. <i>NeuroReport</i> , 2001, 12, 1415-1420.	1.2	31



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127	A 4D approach to the analysis of functional brain images: Application to fMRI data. Human Brain Mapping, 2001, 13, 185-198.	3.6	8
128	Learning related modulation of functional retrieval networks in man. Scandinavian Journal of Psychology, 2001, 42, 197-216.	1.5	13
129	Cognitive processing in literate and illiterate subjects: A review of some recent behavioral and functional neuroimaging data. Scandinavian Journal of Psychology, 2001, 42, 251-267.	1.5	107
130	Selective enhancement of recall through plasticity modulation in an autoassociative memory. Neurocomputing, 2001, 38-40, 867-873.	5.9	14
131	A palimpsest memory based on an incremental Bayesian learning rule. Neurocomputing, 2000, 32-33, 987-994.	5.9	19
132	Functional Maps and Brain Networks. , 2000, , 111-139.		7
133	Language Processing Modulated by Literacy: A Network Analysis of Verbal Repetition in Literate and Illiterate Subjects. Journal of Cognitive Neuroscience, 2000, 12, 364-382.	2.3	151
134	Pain-related cerebral activation is altered by a distracting cognitive task. Pain, 2000, 85, 19-30.	4.2	363
135	Tickling Expectations: Neural Processing in Anticipation of a Sensory Stimulus. Journal of Cognitive Neuroscience, 2000, 12, 691-703.	2.3	169
136	On Forgetful Attractor Network Memories. Perspectives in Neural Computing, 2000, , 54-62.	0.1	0
137	Dynamic changes in the functional anatomy of the human brain during recall of abstract designs related to practice. Neuropsychologia, 1999, 37, 567-587.	1.6	51
138	Learning-related effects and functional neuroimaging. , 1999, 7, 234-243.		20
139	A PET activation study of dynamic mechanical allodynia in patients with mononeuropathy. Pain, 1999, 83, 459-470.	4.2	150
140	Effective Auditory Verbal Encoding Activates the Left Prefrontal and the Medial Temporal Lobes: A Generalization to Illiterate Subjects. NeuroImage, 1999, 10, 45-54.	4.2	36
141	Statistical limitations in functional neuroimaging. I. Non-inferential methods and statistical models. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 1239-1260.	4.0	112
142	Statistical limitations in functional neuroimaging II. Signal detection and statistical inference. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 1261-1281.	4.0	154
143	Comments on a Monte Carlo Approach to the Analysis of Functional Neuroimaging Data. NeuroImage, 1998, 8, 108-112.	4.2	9
144	Coexistence of Attention-Based Facilitation and Inhibition in the Human Cortex. NeuroImage, 1998, 7, 23-29.	4.2	104

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145	The illiterate brain. Learning to read and write during childhood influences the functional organization of the adult brain. Brain, 1998, 121, 1053-1063.	7.6	304
146	Differences in verbal repetition in literate and illiterate subjects: A network analysis. Neurolmage, 1998, 7, S218.	4.2	1
147	A Dynamic Role of the Medial Temporal Lobe during Retrieval of Declarative Memory in Man. Neurolmage, 1997, 6, 1-11.	4.2	61
148	Language and Literacy from a Cognitive Neuroscience Perspective. , 0, , 152-182.		19