

Friedemann Pulvermuller

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273
papers

21,428
citations

74
h-index

141
g-index

286
ext. papers

24,104
ext. citations

4.4
avg, IF

7.48
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 273 | Somatotopic representation of action words in human motor and premotor cortex. <i>Neuron</i> , 2004 , 41, 301-7 | 13.9 | 1417 |
| 272 | Brain mechanisms linking language and action. <i>Nature Reviews Neuroscience</i> , 2005 , 6, 576-82 | 13.5 | 1158 |
| 271 | Words in the brain's language. <i>Behavioral and Brain Sciences</i> , 1999 , 22, 253-279 | 0.9 | 892 |
| 270 | Active perception: sensorimotor circuits as a cortical basis for language. <i>Nature Reviews Neuroscience</i> , 2010 , 11, 351-60 | 13.5 | 666 |
| 269 | Constraint-induced therapy of chronic aphasia after stroke. <i>Stroke</i> , 2001 , 32, 1621-6 | 6.7 | 540 |
| 268 | Functional links between motor and language systems. <i>European Journal of Neuroscience</i> , 2005 , 21, 793-800 | 3.5 | 519 |
| 267 | Conceptual representations in mind and brain: theoretical developments, current evidence and future directions. <i>Cortex</i> , 2012 , 48, 805-25 | 3.8 | 460 |
| 266 | Motor cortex maps articulatory features of speech sounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7865-70 | 11.5 | 445 |
| 265 | The motor somatotopy of speech perception. <i>Current Biology</i> , 2009 , 19, 381-5 | 6.3 | 427 |
| 264 | The time course of visual word recognition as revealed by linear regression analysis of ERP data. <i>NeuroImage</i> , 2006 , 30, 1383-400 | 7.9 | 403 |
| 263 | Walking or talking? Behavioral and neurophysiological correlates of action verb processing. <i>Brain and Language</i> , 2001 , 78, 143-68 | 2.9 | 362 |
| 262 | Grasping ideas with the motor system: semantic somatotopy in idiom comprehension. <i>Cerebral Cortex</i> , 2009 , 19, 1905-14 | 5.1 | 344 |
| 261 | How neurons make meaning: brain mechanisms for embodied and abstract-symbolic semantics. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 458-70 | 14 | 306 |
| 260 | Brain signatures of meaning access in action word recognition. <i>Journal of Cognitive Neuroscience</i> , 2005 , 17, 884-92 | 3.1 | 305 |
| 259 | Language outside the focus of attention: the mismatch negativity as a tool for studying higher cognitive processes. <i>Progress in Neurobiology</i> , 2006 , 79, 49-71 | 10.9 | 299 |
| 258 | Brain reflections of words and their meaning. <i>Trends in Cognitive Sciences</i> , 2001 , 5, 517-524 | 14 | 299 |
| 257 | Reading cinnamon activates olfactory brain regions. <i>NeuroImage</i> , 2006 , 32, 906-12 | 7.9 | 295 |

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| 256 | Visual stimulation alters local 40-Hz responses in humans: an EEG-study. <i>Neuroscience Letters</i> , 1995 , 183, 39-42 | 3.3 | 271 |
| 255 | Effects of word length and frequency on the human event-related potential. <i>Clinical Neurophysiology</i> , 2004 , 115, 1090-103 | 4.3 | 257 |
| 254 | Neurophysiological distinction of action words in the fronto-central cortex. <i>Human Brain Mapping</i> , 2004 , 21, 191-201 | 5.9 | 247 |
| 253 | High-frequency brain activity: its possible role in attention, perception and language processing. <i>Progress in Neurobiology</i> , 1997 , 52, 427-45 | 10.9 | 243 |
| 252 | Electrocortical distinction of vocabulary types. <i>Electroencephalography and Clinical Neurophysiology</i> , 1995 , 94, 357-70 | | 239 |
| 251 | Memory traces for words as revealed by the mismatch negativity. <i>NeuroImage</i> , 2001 , 14, 607-16 | 7.9 | 235 |
| 250 | Understanding in an instant: neurophysiological evidence for mechanistic language circuits in the brain. <i>Brain and Language</i> , 2009 , 110, 81-94 | 2.9 | 193 |
| 249 | Evoked potentials distinguish between nouns and verbs. <i>Neuroscience Letters</i> , 1995 , 197, 81-3 | 3.3 | 189 |
| 248 | Aphasia therapy on a neuroscience basis. <i>Aphasiology</i> , 2008 , 22, 563-599 | 1.6 | 180 |
| 247 | Words and pseudowords elicit distinct patterns of 30-Hz EEG responses in humans. <i>Neuroscience Letters</i> , 1994 , 176, 115-8 | 3.3 | 177 |
| 246 | Hebb's concept of cell assemblies and the psychophysiology of word processing. <i>Psychophysiology</i> , 1996 , 33, 317-33 | 4.1 | 148 |
| 245 | Brain rhythms of language: nouns versus verbs. <i>European Journal of Neuroscience</i> , 1996 , 8, 937-41 | 3.5 | 148 |
| 244 | Interhemispheric cooperation during lexical processing is mediated by the corpus callosum: evidence from the split-brain. <i>Neuroscience Letters</i> , 1994 , 181, 17-21 | 3.3 | 148 |
| 243 | Distributed neuronal networks for encoding category-specific semantic information: the mismatch negativity to action words. <i>European Journal of Neuroscience</i> , 2004 , 19, 1083-92 | 3.5 | 147 |
| 242 | A brain perspective on language mechanisms: from discrete neuronal ensembles to serial order. <i>Progress in Neurobiology</i> , 2002 , 67, 85-111 | 10.9 | 147 |
| 241 | Memantine and constraint-induced aphasia therapy in chronic poststroke aphasia. <i>Annals of Neurology</i> , 2009 , 65, 577-85 | 9.4 | 146 |
| 240 | Word-category specific deficits after lesions in the right hemisphere. <i>Neuropsychologia</i> , 2003 , 41, 53-70 | 3.2 | 138 |
| 239 | Neurophysiological evidence of memory traces for words in the human brain. <i>NeuroReport</i> , 2002 , 13, 521-5 | 1.7 | 137 |

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| 238 | Spectral responses in the gamma-band: physiological signs of higher cognitive processes?. <i>NeuroReport</i> , 1995 , 6, 2059-64 | 1.7 | 137 |
| 237 | High-frequency cortical responses reflect lexical processing: an MEG study. <i>Electroencephalography and Clinical Neurophysiology</i> , 1996 , 98, 76-85 | | 132 |
| 236 | Early semantic context integration and lexical access as revealed by event-related brain potentials. <i>Biological Psychology</i> , 2007 , 74, 374-88 | 3.2 | 131 |
| 235 | The time course of action and action-word comprehension in the human brain as revealed by neurophysiology. <i>Journal of Physiology (Paris)</i> , 2008 , 102, 50-8 | | 127 |
| 234 | The concept of transcortical cell assemblies: a key to the understanding of cortical lateralization and interhemispheric interaction. <i>Neuroscience and Biobehavioral Reviews</i> , 1996 , 20, 557-66 | 9 | 120 |
| 233 | Ultra-rapid access to words in the brain. <i>Nature Communications</i> , 2012 , 3, 711 | 17.4 | 119 |
| 232 | Neuroscience insights improve neurorehabilitation of poststroke aphasia. <i>Nature Reviews Neurology</i> , 2011 , 7, 86-97 | 15 | 119 |
| 231 | Reading salt activates gustatory brain regions: fMRI evidence for semantic grounding in a novel sensory modality. <i>Cerebral Cortex</i> , 2012 , 22, 2554-63 | 5.1 | 118 |
| 230 | A role for the motor system in binding abstract emotional meaning. <i>Cerebral Cortex</i> , 2012 , 22, 1634-47 | 5.1 | 116 |
| 229 | Category-specific conceptual processing of color and form in left fronto-temporal cortex. <i>Cerebral Cortex</i> , 2006 , 16, 1193-201 | 5.1 | 115 |
| 228 | Neuromagnetic evidence for early semantic access in word recognition. <i>European Journal of Neuroscience</i> , 2001 , 13, 201-5 | 3.5 | 114 |
| 227 | Neural reuse of action perception circuits for language, concepts and communication. <i>Progress in Neurobiology</i> , 2018 , 160, 1-44 | 10.9 | 113 |
| 226 | You can count on the motor cortex: finger counting habits modulate motor cortex activation evoked by numbers. <i>NeuroImage</i> , 2012 , 59, 3139-48 | 7.9 | 113 |
| 225 | [Q:] When would you prefer a SOSSAGE to a SAUSAGE? [A:] At about 100 msec. ERP correlates of orthographic typicality and lexicality in written word recognition. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 818-32 | 3.1 | 113 |
| 224 | Determinants of dominance: is language laterality explained by physical or linguistic features of speech?. <i>NeuroImage</i> , 2005 , 27, 37-47 | 7.9 | 112 |
| 223 | Automatic processing of grammar in the human brain as revealed by the mismatch negativity. <i>NeuroImage</i> , 2003 , 20, 159-72 | 7.9 | 110 |
| 222 | Clinical, imaging and pathological correlates of a hereditary deficit in verb and action processing. <i>Brain</i> , 2006 , 129, 321-32 | 11.2 | 108 |
| 221 | Word-specific cortical activity as revealed by the mismatch negativity. <i>Psychophysiology</i> , 2004 , 41, 106-12 | 4.1 | 105 |

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| 220 | Spatiotemporal dynamics of neural language processing: an MEG study using minimum-norm current estimates. <i>NeuroImage</i> , 2003 , 20, 1020-5 | 7.9 | 105 |
| 219 | When do you grasp the idea? MEG evidence for instantaneous idiom understanding. <i>NeuroImage</i> , 2012 , 59, 3502-13 | 7.9 | 104 |
| 218 | A cell assembly model of language. <i>Network: Computation in Neural Systems</i> , 1991 , 2, 455-468 | 0.7 | 104 |
| 217 | Semantic embodiment, disembodiment or misembodiment? In search of meaning in modules and neuron circuits. <i>Brain and Language</i> , 2013 , 127, 86-103 | 2.9 | 101 |
| 216 | Brain embodiment of syntax and grammar: discrete combinatorial mechanisms spelt out in neuronal circuits. <i>Brain and Language</i> , 2010 , 112, 167-79 | 2.9 | 101 |
| 215 | Early influences of word length and frequency: a group study using MEG. <i>NeuroReport</i> , 2003 , 14, 1183-7 | 1.7 | 101 |
| 214 | Fractal dimension of electroencephalographic time series and underlying brain processes. <i>Biological Cybernetics</i> , 1995 , 73, 477-82 | 2.8 | 101 |
| 213 | Syntax as a reflex: neurophysiological evidence for early automaticity of grammatical processing. <i>Brain and Language</i> , 2008 , 104, 244-53 | 2.9 | 99 |
| 212 | The Neuroscience of Language: On Brain Circuits of Words and Serial Order 2003 , | | 99 |
| 211 | Neurophysiological distinction of verb categories. <i>NeuroReport</i> , 2000 , 11, 2789-93 | 1.7 | 96 |
| 210 | Neurobiological Mechanisms of Language Acquisition. <i>Language Learning</i> , 1994 , 44, 681-734 | 5.1 | 95 |
| 209 | Semantic or lexico-syntactic factors: what determines word-class specific activity in the human brain?. <i>Neuroscience Letters</i> , 1999 , 275, 81-4 | 3.3 | 94 |
| 208 | A neuroanatomically grounded Hebbian-learning model of attention-language interactions in the human brain. <i>European Journal of Neuroscience</i> , 2008 , 27, 492-513 | 3.5 | 92 |
| 207 | Grammar processing outside the focus of attention: an MEG study. <i>Journal of Cognitive Neuroscience</i> , 2003 , 15, 1195-206 | 3.1 | 92 |
| 206 | Therapy-related reorganization of language in both hemispheres of patients with chronic aphasia. <i>NeuroImage</i> , 2005 , 28, 481-9 | 7.9 | 89 |
| 205 | Neuromagnetic evidence for early access to cognitive representations. <i>NeuroReport</i> , 2001 , 12, 207-13 | 1.7 | 89 |
| 204 | Multiple simultaneous stimulus presentation facilitates lexical processing. <i>Neuropsychologia</i> , 1996 , 34, 1003-13 | 3.2 | 87 |
| 203 | Agrammatism: behavioral description and neurobiological explanation. <i>Journal of Cognitive Neuroscience</i> , 1995 , 7, 165-81 | 3.1 | 86 |

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| 202 | Nouns, verbs, objects, actions, and abstractions: local fMRI activity indexes semantics, not lexical categories. <i>Brain and Language</i> , 2014 , 132, 28-42 | 2.9 | 76 |
| 201 | The word processing deficit in semantic dementia: all categories are equal, but some categories are more equal than others. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 2027-41 | 3.1 | 76 |
| 200 | Moving the hands and feet specifically impairs working memory for arm- and leg-related action words. <i>Cortex</i> , 2013 , 49, 222-31 | 3.8 | 74 |
| 199 | Imagery or meaning? Evidence for a semantic origin of category-specific brain activity in metabolic imaging. <i>European Journal of Neuroscience</i> , 2008 , 27, 1856-66 | 3.5 | 74 |
| 198 | Rapid cortical plasticity underlying novel word learning. <i>Journal of Neuroscience</i> , 2010 , 30, 16864-7 | 6.6 | 73 |
| 197 | Intensive language-action therapy (ILAT): The methods. <i>Aphasiology</i> , 2012 , 26, 1317-1351 | 1.6 | 72 |
| 196 | Meaning and the brain: The neurosemantics of referential, interactive, and combinatorial knowledge. <i>Journal of Neurolinguistics</i> , 2012 , 25, 423-459 | 1.9 | 70 |
| 195 | Heating up or cooling up the brain? MEG evidence that phrasal verbs are lexical units. <i>Brain and Language</i> , 2010 , 115, 189-201 | 2.9 | 70 |
| 194 | Body-part-specific representations of semantic noun categories. <i>Journal of Cognitive Neuroscience</i> , 2012 , 24, 1492-509 | 3.1 | 69 |
| 193 | Memory traces for inflectional affixes as shown by mismatch negativity. <i>European Journal of Neuroscience</i> , 2002 , 15, 1085-91 | 3.5 | 69 |
| 192 | Cortical correlates of semantic classical conditioning. <i>Psychophysiology</i> , 1996 , 33, 644-9 | 4.1 | 67 |
| 191 | Behavioral and neuronal changes during treatment of mixed transcortical aphasia: a case study. <i>Cognition</i> , 1993 , 48, 139-61 | 3.5 | 67 |
| 190 | Is the Sensorimotor Cortex Relevant for Speech Perception and Understanding? An Integrative Review. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 435 | 3.3 | 67 |
| 189 | The right hemisphere's role in action word processing: a double case study. <i>Neurocase</i> , 2001 , 7, 303-17 | 0.8 | 66 |
| 188 | Drug therapy of post-stroke aphasia: a review of current evidence. <i>Neuropsychology Review</i> , 2011 , 21, 302-17 | 7.7 | 65 |
| 187 | Distributed cell assemblies for general lexical and category-specific semantic processing as revealed by fMRI cluster analysis. <i>Human Brain Mapping</i> , 2009 , 30, 3837-50 | 5.9 | 65 |
| 186 | Abstract semantics in the motor system? - An event-related fMRI study on passive reading of semantic word categories carrying abstract emotional and mental meaning. <i>Cortex</i> , 2018 , 100, 52-70 | 3.8 | 64 |
| 185 | Early Parallel Activation of Semantics and Phonology in Picture Naming: Evidence from a Multiple Linear Regression MEG Study. <i>Cerebral Cortex</i> , 2015 , 25, 3343-55 | 5.1 | 64 |

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| 184 | High-frequency brain activity: perception or active memory?. <i>Trends in Cognitive Sciences</i> , 1999 , 3, 250-254 | 5.4 | 64 |
| 183 | Early MEG activation dynamics in the left temporal and inferior frontal cortex reflect semantic context integration. <i>Journal of Cognitive Neuroscience</i> , 2007 , 19, 1633-42 | 3.1 | 63 |
| 182 | The sound of actions as reflected by mismatch negativity: rapid activation of cortical sensory-motor networks by sounds associated with finger and tongue movements. <i>European Journal of Neuroscience</i> , 2006 , 23, 811-21 | 3.5 | 63 |
| 181 | Category specificity in the processing of color-related and form-related words: an ERP study. <i>NeuroImage</i> , 2006 , 29, 29-37 | 7.9 | 62 |
| 180 | Tracking speech comprehension in space and time. <i>NeuroImage</i> , 2006 , 31, 1297-305 | 7.9 | 62 |
| 179 | Interactions between language and attention systems: early automatic lexical processing?. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 1465-78 | 3.1 | 60 |
| 178 | Modulation of brain activity by multiple lexical and word form variables in visual word recognition: A parametric fMRI study. <i>NeuroImage</i> , 2008 , 42, 1185-95 | 7.9 | 58 |
| 177 | Motor cognition-motor semantics: action perception theory of cognition and communication. <i>Neuropsychologia</i> , 2014 , 55, 71-84 | 3.2 | 57 |
| 176 | Word class-specific deficits in Wernicke's aphasia. <i>Neurocase</i> , 1996 , 2, 203-212 | 0.8 | 57 |
| 175 | Short-term effects of behavioral treatment on movement initiation and postural control in Parkinson's disease: a controlled clinical study. <i>Movement Disorders</i> , 1997 , 12, 306-14 | 7 | 56 |
| 174 | Language models based on Hebbian cell assemblies. <i>Journal of Physiology (Paris)</i> , 2006 , 100, 16-30 | | 56 |
| 173 | Thinking in circuits: toward neurobiological explanation in cognitive neuroscience. <i>Biological Cybernetics</i> , 2014 , 108, 573-93 | 2.8 | 55 |
| 172 | Discrete combinatorial circuits emerging in neural networks: a mechanism for rules of grammar in the human brain?. <i>Neural Networks</i> , 2009 , 22, 161-72 | 9.1 | 55 |
| 171 | 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 | 3.2 | 55 |
| 170 | Grammar or serial order?: discrete combinatorial brain mechanisms reflected by the syntactic mismatch negativity. <i>Journal of Cognitive Neuroscience</i> , 2007 , 19, 971-80 | 3.1 | 55 |
| 169 | Interhemispheric cooperation during word processing: evidence for callosal transfer dysfunction in schizophrenic patients. <i>Schizophrenia Research</i> , 2000 , 46, 231-9 | 3.6 | 55 |
| 168 | Sensorimotor semantics on the spot: brain activity dissociates between conceptual categories within 150 ms. <i>Scientific Reports</i> , 2013 , 3, 1928 | 4.9 | 54 |
| 167 | Brain connections of words, perceptions and actions: A neurobiological model of spatio-temporal semantic activation in the human cortex. <i>Neuropsychologia</i> , 2017 , 98, 111-129 | 3.2 | 51 |

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| 166 | Language in the Mismatch Negativity Design. <i>Journal of Psychophysiology</i> , 2007 , 21, 176-187 | 1 | 51 |
| 165 | Spatiotemporal signatures of large-scale synfire chains for speech processing as revealed by MEG. <i>Cerebral Cortex</i> , 2009 , 19, 79-88 | 5.1 | 50 |
| 164 | High-frequency cortical responses: do they not exist if they are small?. <i>Electroencephalography and Clinical Neurophysiology</i> , 1997 , 102, 64-6 | | 50 |
| 163 | Enhanced mismatch negativity brain response after binaural word presentation. <i>European Journal of Neuroscience</i> , 2004 , 19, 1653-60 | 3.5 | 49 |
| 162 | Syntactic and semantic processing in the healthy and aphasic human brain. <i>Experimental Brain Research</i> , 2001 , 140, 77-85 | 2.3 | 48 |
| 161 | Is the Motor System Necessary for Processing Action and Abstract Emotion Words? Evidence from Focal Brain Lesions. <i>Frontiers in Psychology</i> , 2015 , 6, 1661 | 3.4 | 47 |
| 160 | Causal Influence of Articulatory Motor Cortex on Comprehending Single Spoken Words: TMS Evidence. <i>Cerebral Cortex</i> , 2015 , 25, 3894-902 | 5.1 | 46 |
| 159 | Communicative aphasia treatment as a further development of pace therapy. <i>Aphasiology</i> , 1991 , 5, 39-50.6 | | 46 |
| 158 | Strength of word-specific neural memory traces assessed electrophysiologically. <i>PLoS ONE</i> , 2011 , 6, e22999 | 3.9 | 45 |
| 157 | Effects of attention on what is known and what is not: MEG evidence for functionally discrete memory circuits. <i>Frontiers in Human Neuroscience</i> , 2009 , 3, 10 | 3.3 | 44 |
| 156 | Conceptual grounding of language in action and perception: a neurocomputational model of the emergence of category specificity and semantic hubs. <i>European Journal of Neuroscience</i> , 2016 , 43, 721-37.5 | 3.5 | 43 |
| 155 | Constrained versus unconstrained intensive language therapy in two individuals with chronic, moderate-to-severe aphasia and apraxia of speech: behavioral and fMRI outcomes. <i>American Journal of Speech-Language Pathology</i> , 2012 , 21, S65-87 | 3.1 | 42 |
| 154 | Fractal dimensions of short EEG time series in humans. <i>Neuroscience Letters</i> , 1997 , 225, 77-80 | 3.3 | 42 |
| 153 | P3 and contingent negative variation in Parkinson's disease. <i>Electroencephalography and Clinical Neurophysiology</i> , 1996 , 98, 456-67 | | 42 |
| 152 | Movement priming of EEG/MEG brain responses for action-words characterizes the link between language and action. <i>Cortex</i> , 2016 , 74, 262-76 | 3.8 | 41 |
| 151 | Event-related potentials reflecting the frequency of unattended spoken words: a neuronal index of connection strength in lexical memory circuits?. <i>NeuroImage</i> , 2011 , 55, 658-68 | 7.9 | 41 |
| 150 | Representational Similarity Mapping of Distributional Semantics in Left Inferior Frontal, Middle Temporal, and Motor Cortex. <i>Cerebral Cortex</i> , 2017 , 27, 294-309 | 5.1 | 39 |
| 149 | Somatotopic Semantic Priming and Prediction in the Motor System. <i>Cerebral Cortex</i> , 2016 , 26, 2353-66 | 5.1 | 39 |

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| 148 | Auditory processing and sensory behaviours in children with autism spectrum disorders as revealed by mismatch negativity. <i>Brain and Cognition</i> , 2014 , 86, 55-63 | 2.7 | 39 |
| 147 | Investigation of brain dynamics in Parkinson's disease by methods derived from nonlinear dynamics. <i>Experimental Brain Research</i> , 2001 , 137, 103-10 | 2.3 | 38 |
| 146 | From sensorimotor learning to memory cells in prefrontal and temporal association cortex: a neurocomputational study of disembodiment. <i>Cortex</i> , 2014 , 57, 1-21 | 3.8 | 37 |
| 145 | The lateralization of motor cortex activation to action-words. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 149 | 3.3 | 37 |
| 144 | Arabic morphology in the neural language system. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 998-1010 _{3,1} | | 37 |
| 143 | Neurocomputational Consequences of Evolutionary Connectivity Changes in Perisylvian Language Cortex. <i>Journal of Neuroscience</i> , 2017 , 37, 3045-3055 | 6.6 | 36 |
| 142 | Neural dynamics of speech act comprehension: an MEG study of naming and requesting. <i>Brain Topography</i> , 2014 , 27, 375-92 | 4.3 | 36 |
| 141 | Behavioral treatment of Parkinson's Disease leads to improvement of motor skills and to tremor reduction. <i>Behavior Therapy</i> , 1996 , 27, 235-255 | 4.8 | 36 |
| 140 | Recruitment and Consolidation of Cell Assemblies for Words by Way of Hebbian Learning and Competition in a Multi-Layer Neural Network. <i>Cognitive Computation</i> , 2009 , 1, 160-176 | 4.4 | 35 |
| 139 | Early and parallel processing of pragmatic and semantic information in speech acts: neurophysiological evidence. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 86 | 3.3 | 34 |
| 138 | Changes of right-hemispheric activation after constraint-induced, intensive language action therapy in chronic aphasia: fMRI evidence from auditory semantic processing. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 919 | 3.3 | 33 |
| 137 | Learned changes of brain states alter cognitive processing in humans. <i>Neuroscience Letters</i> , 1998 , 253, 159-62 | 3.3 | 33 |
| 136 | Recovery from post-stroke aphasia: lessons from brain imaging and implications for rehabilitation and biological treatments. <i>Discovery Medicine</i> , 2011 , 12, 275-89 | 2.5 | 33 |
| 135 | Inflection in action: Semantic motor system activation to noun- and verb-containing phrases is modulated by the presence of overt grammatical markers. <i>NeuroImage</i> , 2012 , 60, 1367-79 | 7.9 | 32 |
| 134 | From sounds to words: a neurocomputational model of adaptation, inhibition and memory processes in auditory change detection. <i>NeuroImage</i> , 2011 , 54, 170-81 | 7.9 | 32 |
| 133 | Redundancy gains and costs in cognitive processing: Effects of short stimulus onset asynchronies.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2002 , 28, 1200-1223 | 2.2 | 32 |
| 132 | Using language for social interaction: Communication mechanisms promote recovery from chronic non-fluent aphasia. <i>Cortex</i> , 2016 , 85, 90-99 | 3.8 | 32 |
| 131 | Efficacy of intensive aphasia therapy in patients with chronic stroke: a randomised controlled trial. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018 , 89, 586-592 | 5.5 | 31 |

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| 130 | What can autism teach us about the role of sensorimotor systems in higher cognition? New clues from studies on language, action semantics, and abstract emotional concept processing. <i>Cortex</i> , 2018 , 100, 149-190 | 3.8 | 31 |
| 129 | Dissociating the representation of action- and sound-related concepts in middle temporal cortex. <i>Brain and Language</i> , 2012 , 122, 120-5 | 2.9 | 31 |
| 128 | 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 | 3.3 | 31 |
| 127 | Memory traces for spoken words in the brain as revealed by the hemodynamic correlate of the mismatch negativity. <i>Cerebral Cortex</i> , 2008 , 18, 29-37 | 5.1 | 31 |
| 126 | Bilateral brain reorganization with memantine and constraint-induced aphasia therapy in chronic post-stroke aphasia: An ERP study. <i>Brain and Language</i> , 2015 , 145-146, 1-10 | 2.9 | 30 |
| 125 | Explaining aphasias in neuronal terms. <i>Journal of Neurolinguistics</i> , 1994 , 8, 75-81 | 1.9 | 30 |
| 124 | Early Visual Word Processing Is Flexible: Evidence from Spatiotemporal Brain Dynamics. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 1738-51 | 3.1 | 29 |
| 123 | Motor programming in both hemispheres: an EEG study of the human brain. <i>Neuroscience Letters</i> , 1995 , 190, 5-8 | 3.3 | 29 |
| 122 | Neural Correlates of Semantic Prediction and Resolution in Sentence Processing. <i>Journal of Neuroscience</i> , 2017 , 37, 4848-4858 | 6.6 | 28 |
| 121 | Brain basis of communicative actions in language. <i>NeuroImage</i> , 2016 , 125, 857-867 | 7.9 | 28 |
| 120 | Attention to language: novel MEG paradigm for registering involuntary language processing in the brain. <i>Neuropsychologia</i> , 2012 , 50, 2605-16 | 3.2 | 28 |
| 119 | Lost for emotion words: what motor and limbic brain activity reveals about autism and semantic theory. <i>NeuroImage</i> , 2015 , 104, 413-22 | 7.9 | 27 |
| 118 | The syntax of action. <i>Trends in Cognitive Sciences</i> , 2014 , 18, 219-20 | 14 | 27 |
| 117 | Can language-action links explain language laterality?: an ERP study of perceptual and articulatory learning of novel pseudowords. <i>Cortex</i> , 2012 , 48, 871-81 | 3.8 | 26 |
| 116 | A neuronal model of the language cortex. <i>Neurocomputing</i> , 2007 , 70, 1914-1919 | 5.4 | 26 |
| 115 | A cell assembly model of language | | 26 |
| 114 | Hemispheric contributions to language reorganisation: An MEG study of neuroplasticity in chronic post stroke aphasia. <i>Neuropsychologia</i> , 2016 , 93, 413-424 | 3.2 | 26 |
| 113 | How the camel lost its hump: the impact of object typicality on event-related potential signals in object decision. <i>Journal of Cognitive Neuroscience</i> , 2007 , 19, 1338-53 | 3.1 | 25 |

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| 112 | Complexity of visual stimuli and non-linear EEG dynamics in humans. <i>Cognitive Brain Research</i> , 2003 , 16, 104-10 | | 25 |
| 111 | Syntactic circuits: how does the brain create serial order in sentences?. <i>Brain and Language</i> , 2000 , 71, 194-9 | 2.9 | 25 |
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