



Universiteit
Leiden
The Netherlands

Morphological encoding of Mandarin Chinese: evidence from Chinese disyllabic compound words

Wang, J.

Citation

Wang, J. (2025, July 2). *Morphological encoding of Mandarin Chinese: evidence from Chinese disyllabic compound words*. LOT dissertation series. LOT, Amsterdam. Retrieved from <https://hdl.handle.net/1887/4252669>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/4252669>

Note: To cite this publication please use the final published version (if applicable).

References

- Abdel Rahman, R., & Aristei, S. (2010). Now you see it... and now again: Semantic interference reflects lexical competition in speech production with and without articulation. *Psychonomic Bulletin & Review*, *17*(5), 657-661. <https://doi:10.3758/PBR.17.5.657>
- Abdel Rahman, R., & Melinger, A. (2009). Semantic context effects in language production: A swinging lexical network proposal and a review. *Language and Cognitive Processes*, *24*(5), 713-734. <https://doi.org/10.1080/01690960802597250>
- Akaike, H. (1974). A new look at the statistical model identification. *IEEE transactions on automatic control*, *19*(6), 716-723. <https://doi.org/10.1109/TAC.1974.1100705>
- Amsel, B. D. (2011). Tracking real-time neural activation of conceptual knowledge using single-trial event-related potentials. *Neuropsychologia*, *49*(5), 970-983. <https://doi.org/10.1016/j.neuropsychologia.2011.01.003>
- Baayen, R. H., Davidson, D. J., & Bates, D. M. (2008). Mixed-effects modeling with crossed random effects for subjects and items. *Journal of Memory and Language*, *59*(4), 390-412. <https://doi.org/10.1016/j.jml.2007.12.005>
- Baayen, R. H., Milin, P., Đurđević, D. F., Hendrix, P., & Marelli, M. (2011). An amorphous model for morphological processing in visual comprehension based on naive discriminative learning.

Psychological Review, 118(3), 438-481.
<https://doi.org/10.1037/a0023851>

Badecker, W. (2001). Lexical composition and the production of compounds: Evidence from errors in naming. *Language and Cognitive Processes*, 16(4), 337-366.
<https://doi.org/10.1080/01690960042000120>

Barber, H., Dominguez, A., & de Vega, M. (2002). Human brain potentials indicate morphological decomposition in visual word recognition. *Neuroscience Letters*, 318(3), 149-152.
[https://doi.org/10.1016/S0304-3940\(01\)02500-9](https://doi.org/10.1016/S0304-3940(01)02500-9)

Bates, D., Kliegl, R., Vasishth, S., & Baayen, H. (2015). Parsimonious mixed models. arXiv preprint arXiv:1506.04967.

Bates, D., & Maechler, M. (2020). Bolker [aut, B., cre, Walker, S., Christensen, RHB, Singmann, H., Dai, B., Scheipl, F., Grothendieck, G., Green, P., Fox, J., Bauer, A., & simulate. formula. PNK (shared copyright on, 1.1-26.

Belmore, S. M., Yates, J. M., Bellack, D. R., Jones, S. N., & Rosenquist, S. E. (1982). Drawing inferences from concrete and abstract sentences. *Journal of Verbal Learning and Verbal Behavior*, 21(3), 338-351. [https://doi.org/10.1016/S0022-5371\(82\)90659-4](https://doi.org/10.1016/S0022-5371(82)90659-4)

Bi, Y., Han, Z., & Shu, H. (2007). Compound frequency effect in word production: Evidence from anomia. *Brain and Language*, 103(1-2), 55-56. <https://doi.org/10.1016/j.bandl.2007.07.042>

Bien, H., Levelt, W. J., & Baayen, R. H. (2005). Frequency effects in compound production. *Proceedings of the National Academy of*

- Sciences*, 102(49), 17876-17881.
<https://doi.org/10.1073/pnas.0508431102>
- Bozic, M., & Marslen-Wilson, W. (2010). Neurocognitive contexts for morphological complexity: Dissociating inflection and derivation. *Language and Linguistics Compass*, 4(11), 1063-1073. <https://doi.org/10.1111/j.1749-818X.2010.00254.x>
- Brown, C., & Hagoort, P. (1993). The processing nature of the N400: Evidence from masked priming. *Journal of Cognitive Neuroscience*, 5(1), 34-44.
<https://doi.org/10.1162/jocn.1993.5.1.34>
- Bürki, A., Elbuy, S., Madec, S., & Vasishth, S. (2020). What did we learn from forty years of research on semantic interference? A Bayesian meta-analysis. *Journal of Memory and Language*, 114, 104125. <https://doi.org/10.1016/j.jml.2020.104125>
- Butterworth, B. (1983). Lexical Representation. In B. Butterworth (Ed.), *Language production: Vol. II. Development, writing and other language processes* (pp. 257-294). Academic Press.
- Cai, Q., & Brysbaert, M. (2010). SUBTLEX-CH: Chinese word and character frequencies based on film subtitles. *PLoS ONE*, 5(6), e10729. <https://doi.org/10.1371/journal.pone.0010729>
- Caramazza, A. (1997). How many levels of processing are there in lexical access? *Cognitive Neuropsychology*, 14(1), 177-208.
<https://doi.org/10.1080/026432997381664>
- Caramazza, A., Laudanna, A., & Romani, C. (1988). Lexical access and inflectional morphology. *Cognition*, 28(3), 297-332.
[https://doi.org/10.1016/0010-0277\(88\)90017-0](https://doi.org/10.1016/0010-0277(88)90017-0)

- Catricalà, E., Della Rosa, P. A., Plebani, V., Vigliocco, G., & Cappa, S. F. (2014). Abstract and concrete categories? Evidences from neurodegenerative diseases. *Neuropsychologia*, *64*, 271-281. <https://doi.org/10.1016/j.neuropsychologia.2014.09.041>
- Chen, T.-M., & Chen, J.-Y. (2006). Morphological encoding in the production of compound words in Mandarin Chinese. *Journal of Memory and Language*, *54*(4), 491-514. <https://doi.org/10.1016/j.jml.2005.01.002>
- Chen, T. M., & Chen, J. Y. (2015). The phonological planning in Mandarin spoken production of mono-and bimorphemic words. *Japanese Psychological Research*, *57*(1), 81-89. <https://doi.org/10.1111/jpr.12059>
- Clark, E. V. (1987). The principle of contrast: A constraint on language acquisition. In *Mechanisms of language acquisition* (pp. 1-33). Psychology Press.
- Collins, A. M., & Loftus, E. F. (1975). A spreading-activation theory of semantic processing. *Psychological Review*, *82*(6), 407. <https://doi.org/10.1037/0033-295X.82.6.407>
- Collins, A. M., & Quillian, M. R. (1969). Retrieval time from semantic memory. *Journal of Verbal Learning and Verbal Behavior*, *8*(2), 240-247. [https://doi.org/10.1016/S0022-5371\(69\)80069-1](https://doi.org/10.1016/S0022-5371(69)80069-1)
- Costa, A., Alario, F. X., & Caramazza, A. (2005). On the categorical nature of the semantic interference effect in the picture-word interference paradigm. *Psychonomic Bulletin & Review*, *12*(1), 125-131. <https://doi.org/10.3758/BF03196357>

- Damian, M. F., & Bowers, J. S. (2003). Locus of semantic interference in picture-word interference tasks. *Psychonomic Bulletin & Review*, *10*, 111-117. <https://doi.org/10.3758/bf03196474>
- Dell, G. S. (1986). A spreading-activation theory of retrieval in sentence production. *Psychological Review*, *93*(3), 283-321. <https://doi.org/10.1037/0033-295X.93.3.283>
- Dell, G. S., & O'Seaghdha, P. G. (1992). Stages of lexical access in language production. *Cognition*, *42*(1-3), 287-314. [https://doi.org/10.1016/0010-0277\(92\)90046-k](https://doi.org/10.1016/0010-0277(92)90046-k)
- Del Maschio, N., Fedeli, D., Garofalo, G., & Buccino, G. (2021). Evidence for the concreteness of abstract language: a meta-analysis of neuroimaging studies. *Brain Sciences*, *12*(1), 32. <https://doi.org/10.3390/brainsci12010032>
- Dohmes, P., Zwitserlood, P., & Bölte, J. (2004). The impact of semantic transparency of morphologically complex words on picture naming. *Brain and Language*, *90*(1-3), 203-212. [https://doi.org/10.1016/S0093-934X\(03\)00433-4](https://doi.org/10.1016/S0093-934X(03)00433-4)
- Domínguez, A., De Vega, M., & Barber, H. (2004). Event-related brain potentials elicited by morphological, homographic, orthographic, and semantic priming. *Journal of Cognitive Neuroscience*, *16*(4), 598-608. <https://doi.org/10.1162/089892904323057326>
- Duñabeitia, J. A., Crepaldi, D., Meyer, A. S., New, B., Pliatsikas, C., Smolka, E., & Brysbaert, M. (2018). MultiPic: A standardized set of 750 drawings with norms for six European languages.

Quarterly Journal of Experimental Psychology, 71(4), 808-816.

<https://doi.org/10.1080/17470218.2017.1310261>

Dylman, A. S., & Barry, C. (2018). When having two names facilitates lexical selection: Similar results in the picture-word task from translation distractors in bilinguals and synonym distractors in monolinguals. *Cognition*, 171, 151-171.

<https://doi.org/10.1016/j.cognition.2017.09.014>

Feldman, L. B. (2000). Are morphological effects distinguishable from the effects of shared meaning and shared form?. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 26(6), 1431. <https://doi.org/10.1037/0278-7393.26.6.1431>

Frauenfelder, U. H., & Schreuder, R. (1991). Constraining psycholinguistic models of morphological processing and representation: The role of productivity. In *Yearbook of Morphology 1991* (pp. 165-183). Springer.

Finkbeiner, M., & Caramazza, A. (2006). Now you see it, now you don't: On turning semantic interference into facilitation in a Stroop-like task. *Cortex*, 42(6), 790-796.

[https://doi.org/10.1016/S0010-9452\(08\)70419-2](https://doi.org/10.1016/S0010-9452(08)70419-2)

Fiorentino, R., & Poeppel, D. (2007). Compound words and structure in the lexicon. *Language and Cognitive Processes*, 22(7), 953-1000. <https://doi.org/10.1080/01690960701190215>

Foygel, D., & Dell, G. S. (2000). Models of impaired lexical access in speech production. *Journal of Memory and Language*, 43(2), 182-216. <https://doi.org/10.1006/jmla.2000.2716>

- Fröber, K., Stürmer, B., Frömer, R., & Dreisbach, G. (2017). The role of affective evaluation in conflict adaptation: An LRP study. *Brain and Cognition*, *116*, 9-16. <https://doi.org/10.1016/j.bandc.2017.05.003>
- Frömer, R., Maier, M., & Abdel Rahman, R. (2018). Group-level EEG-processing pipeline for flexible single trial-based analyses including linear mixed models. *Frontiers in Neuroscience*, *12*, 48. <https://doi.org/10.3389/fnins.2018.00048>
- Fromkin, V. A. (1973). Slips of the tongue. *Scientific American*, *229*(6), 110-117. <https://www.jstor.org/stable/24923270>
- Garrett, M. (1980). Levels of processing in sentence production. In *Language production Vol. 1: Speech and talk* (pp. 177-220). Academic Press.
- Gerhand, S., & Barry, C. (2000). When does a deep dyslexic make a semantic error? The roles of age-of-acquisition, concreteness, and frequency. *Brain and Language*, *74*(1), 26-47. <https://doi.org/10.1006/brln.2000.2320>
- Glaser, W. R., & Dünghoff, F.-J. (1984). The time course of picture-word interference. *Journal of Experimental Psychology: Human Perception and Performance*, *10*(5), 640-654. <https://doi.org/10.1037//0096-1523.10.5.640>
- Glaser, W. R., & Glaser, M. O. (1989). Context effects in stroop-like word and picture processing. *Journal of Experimental Psychology: General*, *118*(1), 13. <https://doi.org/10.1037//0096-3445.118.1.13>

- Hanley, J. R., Dell, G. S., Kay, J., & Baron, R. (2004). Evidence for the involvement of a nonlexical route in the repetition of familiar words: A comparison of single and dual route models of auditory repetition. *Cognitive Neuropsychology*, *21*(2-4), 147-158. <https://doi.org/10.1080/02643290342000339>
- Hanley, J. R., Hunt, R. P., Steed, D. A., & Jackman, S. (2013). Concreteness and word production. *Memory & Cognition*, *41*, 365-377. <https://doi.org/10.3758/s13421-012-0266-5>
- Hantsch, A., Jescheniak, J. D., & Schriefers, H. (2005). Semantic competition between hierarchically related words during speech planning. *Memory & Cognition*, *33*(6), 984-1000. <https://doi.org/10.3758/BF03193207>
- Hoffman, P., Rogers, T. T., & Lambon Ralph, M. A. (2011). Semantic diversity accounts for the “missing” word frequency effect in stroke aphasia: Insights using a novel method to quantify contextual variability in meaning. *Journal of Cognitive Neuroscience*, *23*, 2432–2446. <https://doi.org/10.1162/jocn.2011.21614>
- Holcomb, P. J., Kounios, J., Anderson, J. E., & West, W. C. (1999). Dual-coding, context-availability, and concreteness effects in sentence comprehension: an electrophysiological investigation. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *25*(3), 721. <https://doi.org/10.1037/0278-7393.25.3.721>

- Indefrey, P. (2011). The spatial and temporal signatures of word production components: a critical update. *Frontiers in Psychology*, 2, 255. <https://doi.org/10.3389/fpsyg.2011.00255>
- Indefrey, P., & Levelt, W. J. (2004). The spatial and temporal signatures of word production components. *Cognition*, 92(1-2), 101-144. <https://doi.org/10.1016/j.cognition.2002.06.001>
- Jacobs, C. L., & Dell, G. S. (2014). ‘hotdog’, not ‘hot’‘dog’: the phonological planning of compound words. *Language, Cognition and Neuroscience*, 29(4), 512-523. <https://doi.org/10.1080/23273798.2014.892144>
- Janssen, N., Bi, Y., & Caramazza, A. (2008). A tale of two frequencies: Determining the speed of lexical access for Mandarin Chinese and English compounds. *Language and Cognitive Processes*, 23(7-8), 1191-1223. <https://doi.org/10.1080/01690960802250900>
- Janssen, N., Pajtas, P. E., & Caramazza, A. (2014). Task influences on the production and comprehension of compound words. *Memory & Cognition*, 42, 780-793. <https://doi.org/10.3758/s13421-014-0396-z>
- Jescheniak, J. D., & Levelt, W. J. (1994). Word frequency effects in speech production: Retrieval of syntactic information and of phonological form. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 20(4), 824-843. <https://doi.org/10.1037/0278-7393.20.4.824>
- Jescheniak, J. D., & Schriefers, H. (1998). Discrete serial versus cascaded processing in lexical access in speech production:

Further evidence from the coactivation of near-synonyms. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 24(5), 1256. <https://doi.org/10.1037/0278-7393.24.5.1256>

Kaczer, L., Timmer, K., Bavassi, L., & Schiller, N. O. (2015). Distinct morphological processing of recently learned compound words: An ERP study. *Brain Research*, 1629, 309-317. <https://doi.org/10.1016/j.brainres.2015.10.029>

Koester, D., Gunter, T. C., & Wagner, S. (2007). The morphosyntactic decomposition and semantic composition of German compound words investigated by ERPs. *Brain and Language*, 102(1), 64-79. <https://doi.org/10.1016/j.bandl.2006.09.003>

Koester, D., Holle, H., & Gunter, T. C. (2009). Electrophysiological evidence for incremental lexical-semantic integration in auditory compound comprehension. *Neuropsychologia*, 47(8-9), 1854-1864. <https://doi.org/10.1016/j.neuropsychologia.2009.02.027>

Koester, D., Gunter, T. C., Wagner, S., & Friederici, A. D. (2004). Morphosyntax, prosody, and linking elements: The auditory processing of German nominal compounds. *Journal of Cognitive Neuroscience*, 16(9), 1647-1668. <https://doi.org/10.1162/0898929042568541>

Koester, D., & Schiller, N. O. (2008). Morphological priming in overt language production: Electrophysiological evidence from Dutch. *Neuroimage*, 42(4), 1622-1630. <https://doi.org/10.1016/j.neuroimage.2008.06.043>

- Koester, D., & Schiller, N. O. (2011). The functional neuroanatomy of morphology in language production. *Neuroimage*, *55*(2), 732-741. <https://doi.org/10.1016/j.neuroimage.2010.11.044>
- Kounios, J., & Holcomb, P. J. (1994). Concreteness effects in semantic processing: ERP evidence supporting dual-coding theory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *20*(4), 804. <https://doi.org/10.1037//0278-7393.20.4.804>
- Krott, A., Baayen, R. H., & Hagoort, P. (2006). The nature of anterior negativities caused by misapplications of morphological rules. *Journal of Cognitive Neuroscience*, *18*(10), 1616-1630. <https://doi.org/10.1162/jocn.2006.18.10.1616>
- Kuiper, K., Van Egmond, M. E., Kempen, G., & Sprenger, S. (2007). Slipping on superlemmas: Multi-word lexical items in speech production. *The Mental Lexicon*, *2*(3), 313-357. <https://doi.org/10.1075/ml.2.3.03kui>
- Kuipers, J. R., & La Heij, W. (2008). Semantic facilitation in category and action naming: Testing the message-congruency account. *Journal of Memory and Language*, *58*(1), 123-139. <https://doi.org/10.1016/j.jml.2007.05.005>
- Kutas, M., & Federmeier, K. D. (2009). N400. *Scholarpedia*, *4*(10), 7790. <https://doi.org/10.4249/scholarpedia.7790>
- Kutas, M., & Federmeier, K. D. (2011). Thirty years and counting: finding meaning in the N400 component of the event-related brain potential (ERP). *Annual Review of Psychology*, *62*, 621-647. <https://doi.org/10.1146/annurev.psych.093008.131123>

- Kutas, M., & Hillyard, S. A. (1984). Event-related potentials in cognitive science. In *Handbook of Cognitive Neuroscience* (pp. 387-409). Boston, MA: Springer US.
- Kutas, M., & Van Petten, C. (1994). Psycholinguistics electrified: Event-related brain potential investigations In M. A. Gernsbacher (Ed.), *Handbook of Psycholinguistics* (pp. 83-143). Academic Press. <https://doi.org/10.1016/B978-012369374-7/50018-3>
- La Heij, W., Mak, P., Sander, J., & Willeboordse, E. (1998). The gender-congruency effect in picture-word tasks. *Psychological Research*, 61(3), 209-219. <https://doi.org/10.1007/s004260050026>
- Language Teaching and Research Institute of Beijing Language Institute. (1986). *Dictionary of Modern Chinese Frequency*. Beijing Language Institute Press.
- Lau, E. F., Phillips, C., & Poeppel, D. (2008). A cortical network for semantics:(de) constructing the N400. *Nature Reviews Neuroscience*, 9(12), 920-933. <https://doi.org/10.1038/nrn2532>
- Laudanna, A., Badecker, W., & Caramazza, A. (1992). Processing inflectional and derivational morphology. *Journal of Memory and Language*, 31(3), 333-348. [https://doi.org/10.1016/0749-596X\(92\)90017-R](https://doi.org/10.1016/0749-596X(92)90017-R)
- Lee, C.-L., & Federmeier, K. D. (2008). To watch, to see, and to differ: An event-related potential study of concreteness effects as a function of word class and lexical ambiguity. *Brain and*

- Language*, 104(2), 145-158.
<https://doi.org/10.1016/j.bandl.2007.06.002>
- Lensink, S. E., Verdonschot, R. G., & Schiller, N. O. (2014). Morphological priming during language switching: an ERP study. *Frontiers in Human Neuroscience*, 8, 995.
<https://doi.org/10.3389/fnhum.2014.00995>
- Lenth R, Singmann H, Love J, Buerkner P, Herve M. (2019) Emmeans: estimated marginal means, aka least-squares means (Version 1.3. 4). Emmeans Estim Marg Means Aka Least-Sq Means <https://CRAN.R-project.org/package=Emmeans>.
- Levelt, W. J. (1993). *Speaking: From intention to articulation*. MIT press.
- Levelt, W. J., Roelofs, A., & Meyer, A. S. (1999). A theory of lexical access in speech production. *Behavioral and Brain Sciences*, 22(1), 1-38. <https://doi.org/10.1017/s0140525x99001776>
- Libben, G., Gibson, M., Yoon, Y. B., & Sandra, D. (2003). Compound fracture: The role of semantic transparency and morphological headedness. *Brain and Language*, 84(1), 50-64.
[https://doi.org/10.1016/S0093-934X\(02\)00520-5](https://doi.org/10.1016/S0093-934X(02)00520-5)
- Lieber, R. (2021). *Introducing Morphology*. Cambridge University Press. <https://doi.org/10.1017/9781108957960>
- Liu, Y., Shu, H., & Li, P. (2007). Word naming and psycholinguistic norms: Chinese. *Behavior Research Methods*, 39(2), 192-198.
<https://doi.org/10.3758/BF03193147>
- Longtin, C.-M., & Meunier, F. (2005). Morphological decomposition in early visual word processing. *Journal of Memory and*

Language, 53(1), 26-41.
<https://doi.org/10.1016/j.jml.2005.02.008>

Luce, R.D. (1959). *Individual choice behavior*. New York: Wiley.

Luce, R-D. (1986). *Response times: Their role in inferring elementary mental organization*. New York: Oxford University Press.
<https://doi.org/10.1093/acprof:oso/9780195070019.001.0001>

Lupker, S. J. (1979). The semantic nature of response competition in the picture-word interference task. *Memory & Cognition*, 7(6), 485-495. <https://doi.org/10.3758/BF03198265>

Lüttmann, H., Zwitserlood, P., Böhl, A., & Bölte, J. (2011). Evidence for morphological composition at the form level in speech production. *Journal of Cognitive Psychology*, 23(7), 818-836.
<https://doi.org/10.1080/20445911.2011.575774>

MacGregor, L. J., & Shtyrov, Y. (2013). Multiple routes for compound word processing in the brain: Evidence from EEG. *Brain and Language*, 126(2), 217-229.
<https://doi.org/10.1016/j.bandl.2013.04.002>

Mahon, B. Z., Costa, A., Peterson, R., Vargas, K. A., & Caramazza, A. (2007). Lexical selection is not by competition: a reinterpretation of semantic interference and facilitation effects in the picture-word interference paradigm. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 33(3), 503. <https://doi.org/10.1037/0278-7393.33.3.503>

Marelli, M., Aggujaro, S., Molteni, F., & Luzzatti, C. (2012). The multiple-lemma representation of Italian compound nouns: A single case study of deep dyslexia. *Neuropsychologia*, 50(5),

852-861.

<https://doi.org/10.1016/j.neuropsychologia.2012.01.021>

Marslen-Wilson, W., Tyler, L. K., Waksler, R., & Older, L. (1994).

Morphology and meaning in the English mental lexicon.

Psychological Review, 101(1), 3. [https://doi.org/10.1037/0033-](https://doi.org/10.1037/0033-295X.101.1.3)

[295X.101.1.3](https://doi.org/10.1037/0033-295X.101.1.3)

Matuschek, H., Kliegl, R., Vasishth, S., Baayen, H., & Bates, D. (2017).

Balancing Type I error and power in linear mixed models.

Journal of Memory and Language, 94, 305-315.

<https://doi.org/10.1016/j.jml.2017.01.001>

McKinnon, R., Allen, M., & Osterhout, L. (2003). Morphological

decomposition involving non-productive morphemes: ERP

evidence. *Neuroreport*, 14(6), 883-886.

<https://doi.org/10.1097/00001756-200305060-00022>

Meyer, A. S. (1991). The time course of phonological encoding in

language production: Phonological encoding inside a syllable.

Journal of Memory and Language, 30(1), 69-89.

[https://doi.org/10.1016/0749-596X\(91\)90011-8](https://doi.org/10.1016/0749-596X(91)90011-8)

Mondini, S., Luzzatti, C., Zonca, G., Pistarini, C., & Semenza, C.

(2004). The mental representation of Verb–Noun compounds in

Italian: Evidence from a multiple single-case study in aphasia.

Brain and Language, 90(1-3), 470-477.

[https://doi.org/10.1016/S0093-934X\(03\)00458-9](https://doi.org/10.1016/S0093-934X(03)00458-9)

Morris, J., Frank, T., Grainger, J., & Holcomb, P. J. (2007). Semantic

transparency and masked morphological priming: An ERP

- investigation. *Psychophysiology*, 44(4), 506-521. <https://doi.org/10.1111/j.1469-8986.2007.00538.x>
- Neath, A. A., & Cavanaugh, J. E. (2012). The Bayesian information criterion: background, derivation, and applications. *Wiley Interdisciplinary Reviews: Computational Statistics*, 4(2), 199-203. <https://doi.org/10.1002/wics.199>
- Newton, P. K., & Barry, C. (1997). Concreteness effects in word production but not word comprehension in deep dyslexia. *Cognitive Neuropsychology*, 14, 481-509. <https://doi.org/10.1080/026432997381457>
- Norris, D., & McQueen, J. M. (2008). Shortlist B: a Bayesian model of continuous speech recognition. *Psychological Review*, 115(2), 357. <https://doi.org/10.1037/0033-295X.115.2.357>
- Paivio, A. (1991). Dual coding theory: Retrospect and current status. *Canadian Journal of Psychology/Revue canadienne de psychologie*, 45(3), 255. <https://doi.org/10.1037/h0084295>
- Penke, M., Weyerts, H., Gross, M., Zander, E., Münte, T. F., & Clahsen, H. (1997). How the brain processes complex words: an event-related potential study of German verb inflections. *Cognitive Brain Research*, 6(1), 37-52. [https://doi.org/10.1016/S0926-6410\(97\)00012-8](https://doi.org/10.1016/S0926-6410(97)00012-8)
- Peterson, R. R., & Savoy, P. (1998). Lexical selection and phonological encoding during language production: Evidence for cascaded processing. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 24(3), 539. <https://doi.org/10.1037/0278-7393.24.3.539>

- Pinker, S., & Ullman, M. T. (2002). The past and future of the past tense. *Trends in Cognitive Sciences*, 6(11), 456-463. [https://doi.org/10.1016/S1364-6613\(02\)01990-3](https://doi.org/10.1016/S1364-6613(02)01990-3)
- Plaut, D. C. (1996). Relearning after damage in connectionist networks: Toward a theory of rehabilitation. *Brain and Language*, 52(1), 25-82. <https://doi.org/10.1006/brln.1996.0004>
- Rastle, K., & Davis, M. H. (2008). Morphological decomposition based on the analysis of orthography. *Language and Cognitive Processes*, 23(7-8), 942-971. <https://doi.org/10.1080/01690960802069730>
- Rastle, K., Davis, M. H., & New, B. (2004). The broth in my brother's brothel: Morpho-orthographic segmentation in visual word recognition. *Psychonomic Bulletin & Review*, 11, 1090-1098. <https://doi.org/10.3758/BF03196742>
- Rodriguez-Fornells, A., Clahsen, H., Lleó, C., Zaake, W., & Münte, T. F. (2001). Event-related brain responses to morphological violations in Catalan. *Cognitive Brain Research*, 11(1), 47-58. [https://doi.org/10.1016/S0926-6410\(00\)00063-X](https://doi.org/10.1016/S0926-6410(00)00063-X)
- Roelofs, A. (1992). A spreading-activation theory of lemma retrieval in speaking. *Cognition*, 42(1-3), 107-142. [https://doi.org/10.1016/0010-0277\(92\)90041-F](https://doi.org/10.1016/0010-0277(92)90041-F)
- Roelofs, A. (1996). Morpheme frequency in speech production: Testing WEAVER. In *Yearbook of Morphology 1996* (pp. 135-154). Kluwer, Dordrecht.
- Roelofs, A. (1996). Serial order in planning the production of successive morphemes of a word. *Journal of Memory and*

Language, 35(6), 854-876.
<https://doi.org/10.1006/jmla.1996.0044>

Roelofs, A., & Baayen, H. (2002). Morphology by itself in planning the production of spoken words. *Psychonomic Bulletin & Review*, 9, 132-138. <https://doi.org/10.3758/bf03196269>

Roelofs, A. (2008). Tracing attention and the activation flow in spoken word planning using eye movements. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 34(2), 353. <https://doi.org/10.1037/0096-3445.137.2.303>

Roelofs, A., & Meyer, A. S. (1998). Metrical structure in planning the production of spoken words. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 24(4), 922. <https://doi.org/10.1037/0278-7393.24.4.922>

Roelofs, A., Meyer, A. S., & Levelt, W. J. M. (1996). Interaction between semantic and orthographic factors in conceptually driven naming: Comment on Starreveld and La Heij (1995). *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 22(1), 246–251. <https://doi.org/10.1037/0278-7393.22.1.246>

Rosinski, R. R. (1977). Picture-word interference is semantically based. *Child Development*, 48(2), 643–647. <https://doi.org/10.2307/1128667>.

Rugg, M. D. (1990). Event-related brain potentials dissociate repetition effects of high-and low-frequency words. *Memory & Cognition*, 18(4), 367-379. <https://doi.org/10.3758/BF03197126>

- Sailor, K., & Brooks, P. J. (2014). Do part–whole relations produce facilitation in the picture–word interference task?. *Quarterly Journal of Experimental Psychology*, 67(9), 1768-1785. [https://doi.org/ 10.1080/17470218.2013.870589](https://doi.org/10.1080/17470218.2013.870589)
- Schiller, N. O. (2020). Neurolinguistic approaches in morphology. In *Oxford Research Encyclopedia of Linguistics*. <https://doi.org/10.1093/acrefore/9780199384655.013.601>
- Schiller, N. O., & Verdonshot, R. G. (2019). Morphological Theory and Neurolinguistics. In J. A. F. Masini (Ed.), *The Oxford Handbook of Morphological Theory*. Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780199668984.013.31>
- Schwanenflugel, P. J. (1991). Contextual constraint and lexical processing. In *Advances in Psychology* (Vol. 77, pp. 23-45). Elsevier. [https://doi.org/10.1016/S0166-4115\(08\)61528-9](https://doi.org/10.1016/S0166-4115(08)61528-9)
- Schwanenflugel, P. J., Harnishfeger, K. K., & Stowe, R. W. (1988). Context availability and lexical decisions for abstract and concrete words. *Journal of Memory and Language*, 27(5), 499-520. [https://doi.org/10.1016/0749-596X\(88\)90022-8](https://doi.org/10.1016/0749-596X(88)90022-8)
- Smolka, E., Gondan, M., & Rösler, F. (2015). Take a stand on understanding: Electrophysiological evidence for stem access in German complex verbs. *Frontiers in Human Neuroscience*, 9, 62. <https://doi.org/10.3389/fnhum.2015.00062>
- Snodgrass, J. G., & Vanderwart, M. (1980). A standardized set of 260 pictures: norms for name agreement, image agreement, familiarity, and visual complexity. *Journal of Experimental*

Psychology: Human Learning and Memory, 6(2), 174-215.

<https://doi.org/10.1037/0278-7393.6.2.174>

Šoškić, A., Jovanović, V., Styles, S. J., Kappenman, E. S., & Ković, V. (2022). How to do better N400 studies: reproducibility, consistency and adherence to research standards in the existing literature. *Neuropsychology Review*, 32(3), 577-600.

<https://doi.org/10.1007/s11065-021-09513-4>

Spinnato, J., Roubaud, M., Burle, B., & Torrèsani, B. (2015). Detecting single-trial EEG evoked potential using a wavelet domain linear mixed model: application to error potentials classification. *Journal of Neural Engineering*, 12(3), 036013.

<https://doi.org/10.1088/1741-2560/12/3/036013>

Sprenger, S. A., Levelt, W. J., & Kempen, G. (2006). Lexical access during the production of idiomatic phrases. *Journal of Memory and Language*, 54(2), 161-184.

<https://doi.org/10.1016/j.jml.2005.11.001>

Starreveld, P. A., & La Heij, W. (1995). Semantic interference, orthographic facilitation, and their interaction in naming tasks. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 21(3), 686.

<https://doi.org/10.1037/0278-7393.21.3.686>

Starreveld, P. A., & La Heij, W. (1996). Time-course analysis of semantic and orthographic context effects in picture naming.

Journal of Experimental Psychology: Learning, Memory, and Cognition, 22(4), 896.

<https://doi.org/10.1037/0278-7393.22.4.896>

- Strijkers, K., Costa, A., & Thierry, G. (2010). Tracking lexical access in speech production: electrophysiological correlates of word frequency and cognate effects. *Cerebral Cortex*, *20*(4), 912-928. <https://doi.org/10.1093/cercor/bhp153>
- Su, I.-F., Yum, Y. N., & Lau, D. K.-Y. (2023). Hong Kong Chinese character psycholinguistic norms: Ratings of 4376 single Chinese characters on semantic radical transparency, age-of-acquisition, familiarity, imageability, and concreteness. *Behavior Research Methods*, *55*(6), 2989-3008. <https://doi.org/10.3758/s13428-022-01928-y>
- Tan, L.-H., & Perfetti, C. A. (1998). Phonological codes as early sources of constraint in Chinese word identification: A review of current discoveries and theoretical accounts. *Reading and Writing*, *10*, 165-200. <https://doi.org/10.1023/A:1008086231343>
- Tan, L. H., Liu, H.-L., Perfetti, C. A., Spinks, J. A., Fox, P. T., & Gao, J.-H. (2001). The neural system underlying Chinese logograph reading. *Neuroimage*, *13*(5), 836-846. <https://doi.org/10.1006/nimg.2001.0749>
- Tsang, Y.-K., Zou, Y., & Tse, C.-Y. (2022). Semantic transparency in Chinese compound word processing: Evidence from mismatch negativity. *Neuroscience*, *490*, 216-223. <https://doi.org/10.1016/j.neuroscience.2022.03.007>
- Van Petten, C., & Kutas, M. (1990). Interactions between sentence context and word frequency in event-related brain potentials. *Memory & Cognition*, *18*, 380-393. <https://doi.org/10.3758/BF03197127>

- Verdonschot, R. G., Middelburg, R., Lensink, S. E., & Schiller, N. O. (2012). Morphological priming survives a language switch. *Cognition*, *124*(3), 343-349. <https://doi.org/10.3758/BF03197127>
- Voeten, C. (2019). *permutest*: Permutation tests for time series data.
- Von Grebmer zu Wolfsturn, S., Robles, L. P., & Schiller, N. O. (2021a). Cross-linguistic interference in late language learners: An ERP study. *Brain and Language*, *221*, 104993. <https://doi.org/10.1016/j.bandl.2021.104993>
- Von Grebmer zu Wolfsturn, S., Robles, L. P., & Schiller, N. O. (2021b). Noun-phrase production as a window to language selection: An ERP study. *Neuropsychologia*, *162*, 108055. <https://doi.org/10.1016/j.neuropsychologia.2021.108055>
- Wang, J., Schiller, N. O., & Verdonschot, R. G. (2024). Morphological encoding in language production: Electrophysiological evidence from Mandarin Chinese compound words. *PLoS ONE*, *19*(10), e0310816. <https://doi.org/10.1371/journal.pone.0310816>
- Wang, M., Chen, Y., Jiang, M., & Schiller, N. O. (2021). The time course of speech production revisited: no early orthographic effect, even in Mandarin Chinese. *Language, Cognition and Neuroscience*, *36*(1), 13-24. <https://doi.org/10.1080/23273798.2020.1803373>
- West, W. C., & Holcomb, P. J. (2000). Imaginal, semantic, and surface-level processing of concrete and abstract words: an electrophysiological investigation. *Journal of Cognitive*

- Neuroscience*, 12(6), 1024-1037.
<https://doi.org/10.1162/08989290051137558>
- Winter, B. (2019). *Statistics for linguists: An introduction using R*. Routledge. <https://doi.org/10.4324/9781315165547>
- Winther Balling, L., & Harald Baayen, R. (2008). Morphological effects in auditory word recognition: Evidence from Danish. *Language and Cognitive Processes*, 23(7-8), 1159-1190.
<https://doi.org/10.1080/01690960802201010>
- Woodman, G. F. (2010). A brief introduction to the use of event-related potentials in studies of perception and attention. *Attention, Perception, & Psychophysics*, 72, 2031-2046.
[https://doi.org/10.1016/S1364-6613\(00\)01545-X](https://doi.org/10.1016/S1364-6613(00)01545-X)
- Xu, X., & Li, J. (2020). Concreteness/abstractness ratings for two-character Chinese words in MELD-SCH. *PLoS ONE*, 15(6), e0232133. <https://doi.org/10.1371/journal.pone.0232133>
- Zhou, X., & Marslen-Wilson, W. (1995). Morphological structure in the Chinese mental lexicon. *Language and Cognitive Processes*, 10(6), 545-600. <https://doi.org/10.1080/01690969508407114>
- Zhou, X., Marslen-Wilson, W., Taft, M., & Shu, H. (1999). Morphology, orthography, and phonology reading Chinese compound words. *Language and Cognitive Processes*, 14(5-6), 525-565. <https://doi.org/10.1080/016909699386185>
- Zhou, X., & Marslen-Wilson, W. (2014). Words, morphemes and syllables in the Chinese mental lexicon. In *Morphological Structure, Lexical Representation and Lexical Access (RLE Linguistics C: Applied Linguistics)* (pp. 393-422). Routledge.

- Zwitserslood, P., Bölte, J., & Dohmes, P. (2000). Morphological effects on speech production: Evidence from picture naming. *Language and Cognitive Processes*, 15(4-5), 563-591. <https://doi.org/10.1080/01690960050119706>
- Zwitserslood, P., Bölte, J., & Dohmes, P. (2002). Where and how morphologically complex words interplay with naming pictures. *Brain and Language*, 81(1-3), 358-367. <https://doi.org/10.1006/brln.2001.2530>
- Zwitserslood, P. (2014). The role of semantic transparency in the processing and representation of Dutch compounds. In *Morphological Structure, Lexical Representation and Lexical Access (RLE Linguistics C: Applied Linguistics)* (pp. 341-368). Routledge. <https://doi.org/10.4324/9781315857213>