

List of Publications

Chapters in Books

1. Mashal, N., Andrick M., and Small S. (2011). "Motor cortical activation during speech perception". In M. Faust (Ed.), *Advances in the Neural Substrates of Language: Toward a synthesis of Basic Science and Clinical Research*". Wiley Blackwell: USA.
2. Mashal, N. (2012). *Nonliteral comprehension deficits in children with learning disabilities: Implication of brain imaging technology* (pp. 211- 219). In A. Shamir & O. Korat (Eds.). *Technology for Literacy Achievements for Children at Risk*. Springer: USA.
3. Mashal, N., & Kasirer, A. (2013). *Understanding verbal and visual metaphors in Autism* (pp. 651-670). In V.B. Patel et al. (Eds.). *The Comprehensive Guide to Autism*. Springer: USA.

ARTICLES

1. Hershkowitz, D. and Mashal, N. (1998). $P\alpha$ -matrices and Lyapunov scalar stability. *The Electronic Journal of Linear Algebra*, 4, 39-47.
2. Mashal, N., Faust, M., & Hendler, T. (2005). The role of the right hemisphere in processing nonsalient metaphorical meanings: Application of Principal Components Analysis to fMRI data. *Neuropsychologia*, 43, 2084-2100.
3. Mashal, N., Faust, M., Hendler, T., & Jung-Beeman, M. (2007). An fMRI investigation of the neural correlates underlying the processing of novel metaphoric expressions. *Brain and Language*, 100, 115-126.
4. Faust, M., & Mashal, N. (2007). RH advantage in processing novel metaphoric expressions: Behavioral data. *Neuropsychologia*, 45, 860-870.
5. Mashal, N., & Faust, M. (2008). Right hemisphere sensitivity to novel metaphoric relations: Application of the signal detection theory. *Brain and Language*, 104, 103-112.
6. Mashal, N., Faust, M., Hendler, T. & Jung-Beeman, M. (2008). Hemispheric differences in processing the literal interpretation of idioms: Converging evidence from behavioral and fMRI studies. *Cortex*, 44, 848-860.

7. Pobric, G., Mashal, N., Faust, M., & Lavidor, M. (2008). The causal role of the right cerebral hemisphere in processing novel metaphoric expressions taken from poetry: A TMS study. *Journal of Cognitive Neuroscience*, 20, 170-181.
8. Mashal, N., Faust, M., Hendler, T., & Jung-Beeman, M. (2009). An fMRI study of processing novel metaphoric sentences. *Laterality*, 14, 30-54.
9. Mashal, N., & Faust, M. (2009). Conventionalization of novel metaphors: A shift in hemispheric asymmetry. *Laterality*, 14, 573-589.
10. Mashal, N., & Faust, M. (2010). The effects of metaphoricity and presentation style on brain activation during text comprehension. *Metaphor and Symbol*, 25(1), 19 – 33.
11. Mashal, N., Gavrieli, R., & Kavé, G. (2011). Age-related changes in the appreciation of novel metaphoric semantic relations, *Aging, Neuropsychology, and Cognition*, 18 (5), 527–543.
12. Mashal, N., & Kasirer, A. (2011). Thinking maps enhance metaphoric competence in children with autism and learning disabilities. *Research in Developmental Disabilities*, 32, 2045–2054.
13. Mashal, N., & Kasirer, A. (2012). Principal component analysis study of visual and verbal metaphoric comprehension in children with autism and learning disabilities. *Research in Developmental Disabilities*, 33, 274–282.
14. Kavé, G., & Mashal, N. (2012): Age-related differences in word-retrieval but not in meaning generation, *Aging, Neuropsychology, and Cognition*, 18, 527-543.
15. Mashal, N., Solodkin A., Dick, A., Chen, E.E., & Small, S.L. (2012) A Network Model of Observation and Imitation of Speech. *Frontiers in psychology*, 3:84. doi:10.3389/fpsyg.2012.00084.
16. Mashal, N., & Kasirer, A. (2012b). The relationship between visual metaphor comprehension and recognition of similarities in children with learning disabilities. *Research in Developmental Disabilities*, 33, 1741-1748.
17. Subramaniam, K., Faust, M., Beeman, M., & Mashal, N. (2012). The Repetition Paradigm: Enhancement of novel metaphors and suppression of conventional metaphors in the left inferior parietal lobe. *Neuropsychologia*, 50, 2705–2719.
18. Subramaniam, K., Beeman, M., Faust, M., & Mashal, N. (2013). Positively-valenced stimuli facilitate creative novel metaphoric processes by enhancing medial

prefrontal cortical (mPFC) activation. *Frontiers in Psychology*, 4:211. doi: 10.3389/fpsyg.2013.00211.

19. Mashal, N., Vishne, T., Laor, N., & Titone, D. (2013). Enhanced left frontal involvement during novel metaphor comprehension in schizophrenia: Evidence from functional neuroimaging. *Brain and Language*, 124, 66-74.
20. Mashal, N. (2013). The role of working memory in the comprehension of unfamiliar and familiar metaphors. *Language and Cognition*, 5(4), 409- 436.
21. Mashal, N., & Itkes, O. (2014). The effects of emotional valence on hemispheric processing of metaphoric word pairs. *Laterality*, 19, 511-521.
22. Mashal, N., Shen, Y., & Kastel, D. (2014). Element Order in Metaphorical and Literal Phrases. *Metaphor and symbol*, 29 (2), 113-128.
23. Mashal, N., & Coblenz, S. (2014). Creative interpretations of novel conceptual combinations in aging. *Creativity Research Journal*, 26(2), 158–164.
24. Kavé, G., Gavrieli, R., & Mashal, N. (2014). Stronger left-hemisphere lateralization due to accumulated knowledge in older versus younger adults. *Laterality*, 19, 705-717.
25. Mashal, N., Shen, Y., Jospe, K., & Gil, D. (2014). Language effects on the conceptualization of hybrids. *Language and Cognition*, 6, 217– 241.
26. Kesner-Baruch, Y., Spector-Levy, O., & Mashal, N. (2014). Preschoolers' verbal and Behavioral responses as indicators of attitudes and scientific curiosity. *International Journal of Science and Mathematics Education*. (DOI) 10.1007/s10763-014-9573-6.
27. Mashal, N., Vishne, T., & Laor, N. (2014). The role of the precuneus in metaphor comprehension: Evidence from an fMRI study in people with schizophrenia and healthy participants. *Frontiers in Human Neuroscience*, 8: 818.
28. Shen, Y., Aharoni, B., & Mashal, N. (2015). Taxonomic and ad hoc categorization within the two cerebral hemispheres. *Laterality*. DOI: 10.1080/1357650X.2015.1006235.
29. Kasirer, A., & Mashal, N. (2014). Verbal creativity in autism: Comprehension and generation of metaphoric language in high-functioning autism spectrum disorder and typical development. *Frontiers in Human Neuroscience*, 8, 615. doi:10.3389/fnhum.2014.00615.

30. Itkes, O., & Mashal, N. (2015). Processing negative valence of word pairs that include a positive word. *Cognition and Emotion*. DOI: 10.1080/02699931.2015.1039934.
31. Mashal, N., Borodkin, k., Maliniak, O., & Faust, M. (2015). Hemispheric Involvement in Native and Non-Native Comprehension of Conventional Metaphors. *Journal of Neurolinguistics*, 35, 96- 108.
32. Lifshitz-Vahav, H., Shnitzer, S., & Mashal, N. (2015). Participation in recreation and cognitive activities as a predictor of cognitive performance of adults with/without Down syndrome. *Aging and Mental Health*. DOI: 10.1080/13607863.2015.1047322.
33. Saban- Bezalel, R., & Mashal, N. (2015). Hemispheric Processing of Idioms and Irony in Adults with and without Pervasive Developmental Disorder. *Journal of Autism and Developmental Disorders*, 45, 3496-3508.
34. Saban-Bezalel, R., & Mashal, N. (2015). The effects of intervention on the comprehension of irony and on hemispheric processing of irony in adults with ASD. *Neuropsychologia*, 77, 233- 241.
35. Segal, D., Mashal, N., & Shalev, C. (2015). Semantic conflicts are resolved differently by adults with and without ADHD. *Research in Developmental Disabilities*, 47, 416–429.
36. Lifshitz Ben Basat, A., Gvion, A., Vatine, J.J., & Mashal, N. (2016). Transcranial direct current stimulation to improve naming abilities of persons with chronic aphasia: A preliminary study using individualized based protocol. *Journal of Neurolinguistics*, 38, 1- 13.
37. Metzuyanin- Gorlick, S. & Mashal, N. (2016). The effects of transcranial direct current stimulation over the dorsolateral prefrontal cortex on cognitive inhibition. *Experimental Brain Research*, 234, 1537-1544.
38. Shnitzer-Meirovich, S., Lifshitz-Vahab, H., & Mashal, N. (in press). Comprehension of verbal and visual metaphors among individuals with intellectual disability with and without Down Syndrome. *Education and Training in Autism and Developmental Disabilities*.
39. Borodkin, k., Kenett, Y., Faust, M., & Mashal, N. (2016). When pumpkin is closer to onion than to squash: The structure of the second language lexicon. *Cognition*, 156, 60- 70.

40. Kasirer, A., & Mashal, N. (2016). Comprehension and Generation of Metaphors by Children with Autism Spectrum Disorder. *Research in Autism Spectrum Disorders*, 32, 53- 63.
41. Shnitzer-Meirovich, S., Lifshitz-Vahab, H., & Mashal, N. (in press). Comprehension of verbal and visual metaphors among individuals with intellectual disability with and without Down Syndrome. *Education and Training in Autism and Developmental Disabilities*.
42. Kasirer, A., & Mashal, N. (in press). Comprehension and generation of metaphoric language in children, adolescents and adults with dyslexia. *Dyslexia*.
43. Segal, D., Shalev, L., & Mashal, N. (in press). Attenuated hemispheric asymmetry in metaphor processing among adults with ADHD. *Neuropsychology*.