## Curriculum Vitae: Michal Lahav



## Biography

Michal Lahav earned her BSc and PhD in Chemistry in 2001 (*cum laude*) under the mentorship of Professor Itamar Willner at the Hebrew University of Jerusalem. She then completed postdoctoral research with Professor Israel Rubinstein at the Weizmann Institute of Science before moving to Harvard University to study nanochemistry with Professor George M. Whitesides. After three years in the United States, she returned to Israel, where she was appointed as a Scientific Advisor at the Weizmann Institute and later became an Associate Staff



Scientist in the Department of Organic Chemistry in 2011. She is currently a Senior Staff Scientist in the Department of Molecular Chemistry and Materials Science.

Her work advances the fundamental understanding of the formation and electronic properties of metal-supramolecular architectures. Her interdisciplinary research focuses on the self-assembly of metal-organic materials for energy storage and electrochromics, with several products currently in the patenting process. These materials have been used to fabricate memory elements, charge storage devices, and supercapacitors, which have been successfully integrated with conventional printed circuit boards (PCBs). Notably, metalorganic materials possess a comprehensive range of electrochromic properties, including ultra-high coloration efficiencies and excellent cyclic stability. Importantly, these materials can be fabricated using green solvents and automated spray-coating, a method compatible with industrial roll-to-roll (R2R) processing. Funding for this research was provided by the Israel Innovation Authority, Yeda - Sela Center for Basic Research, US – Israel Binational Science Foundation (BSF), and Israel Science Foundation (ISF) and has resulted in industrial collaboration with Hanita coatings (a distinct business unit within Avery Dennison) and Flo Optics. Currently, she is collaborating with Professor Antonio Facchetti from Georgia Tech formation on materials for sensors and Solar Cells.

She has published more than 85 papers, including articles in the *Journal of the American Chemical Society, Angewandte Chemie, Advanced Materials, Nature Communications*, and *ACS Nano* (h-index = 35) – and has presented her work at many international conferences. In addition to mentoring and training graduate students and postdoctoral fellows in her lab, she developed and teaches a new graduate course in Electrochemistry. For several years, she has been involved with high school teachers studying for a Master's degree at the Weizmann Institute, and she also teaches Israeli-Arabic high school students from underdeveloped areas.

Among her awards and honors are the Dr. Maxine Singer Prize for Outstanding Staff Scientists, the Baruch Zinger Award for Academic Excellence, the IVS Excellence Award for Surface Science Expertise, and the Schmidt Prize.