RICHARD-WILLSTÄTTER-VORLESUNG 2009

Prof. Shlomo Yitzchaik

Institute of Chemistry and the Krueger Family Center for Nanoscience and Nanotechnology, The Hebrew University of Jerusalem, Israel

Molecular Interfaces in Neuroelectronic Hybrids

Donnerstag, 10. Dezember 2009, 13.00 Uhr s.t., TU Dresden, Institute for Materials Science, EG, Seminarraum 115, Hallwachsstraße 3

Shlomo Yitzchaik developed novel routes to assemble molecules on surfaces including the topotactic self-assembly (TSA) and the molecular layer epitaxy (MLE) methodologies that are applicable to solid-state 2D-surfaces. He pioneered the studies for molecular tuning of the electronic properties of silicon and has developed a modular method to link molecular transducers to various sensor-devices surfaces that interfaces living cells with electronic devices. Prof. Yitzchaik also explored new photoactive conducting nanowires and gels. He holds 17 patents in the fields of material science, solid-state organic chemistry and thin-film technologies. Awards he received include the prestigious Kaye Award from the Hebrew University Jerusalem.

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