

MOLECULAR ELECTRONICS

Charge Transport & Energy Conversion in Molecular-Scale Devices



Prof. Anant M. P. Anantram

*Electrical & Computer Engineering
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Prof. Joshua L. Hihath

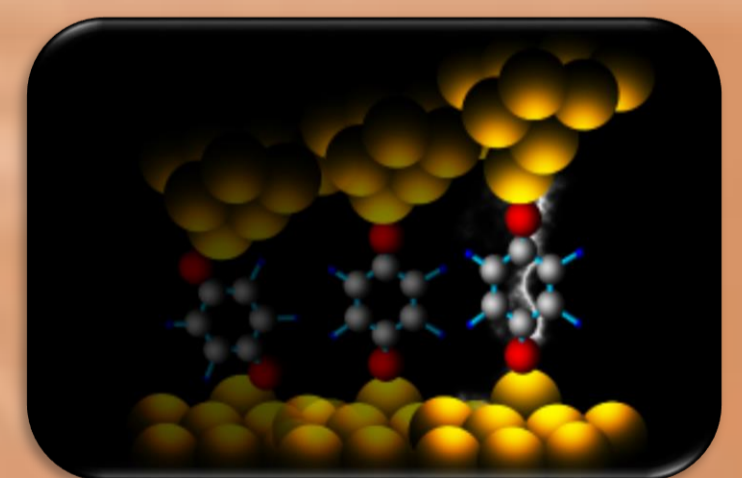
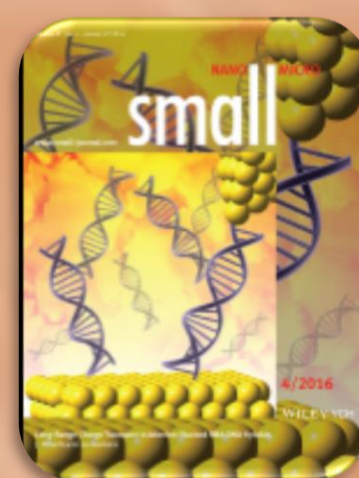
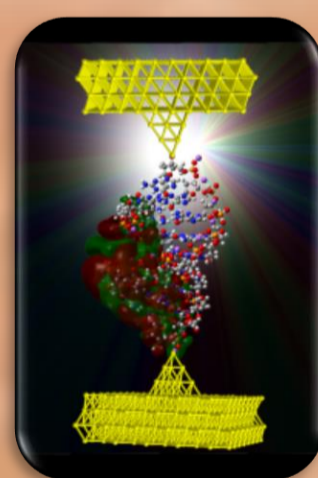
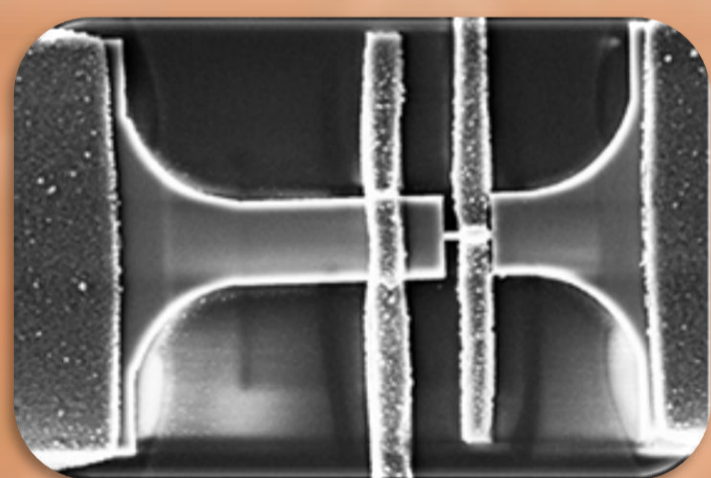
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Dr. Anantram earned his B.Sc. in Applied Science from P.S.G. College of Technology, Coimbatore, India, his M.Sc. degree in Physics from the University of Pune, India, and his Ph.D. in Electrical Engineering from Purdue University. He has worked at the NASA Ames Research Center's Center for Nanotechnology and was a professor at the University of Waterloo before joining the University of Washington.

Anantram's group at the UW works on the theory, algorithm and application of modeling methods for nanoscale materials and devices. The group's current focus is on fast algorithms to calculate Gless, modeling of electron transport in DNA and multi-scale modeling of memory devices such as phase change and resistive memory devices.

Dr. Hihath received his Ph.D. in 2008 from Arizona State University, and during his graduate studies he received an NSF Fellowship focused on Biomolecular Nanotechnology via the Integrated Graduate Education and Research Training program, and the prestigious Achievement Reward for College Scientists in both 2006 and 2007 for his work on the electrical detection of DNA mutations. Prior to joining UC Davis he worked as an Assist. Res. Professor in the Center for Bioelectronics & Biosensors at Arizona State University.

His work focuses on understanding the electrical, thermal, optical & mechanical properties of nanoscale and molecular systems, with an emphasis on developing new ways of controlling energy and charge transport in these systems.



Monday, June 21, 2017, 13:30 - 14:00

TOBB ETÜ CONFERENCE CENTER

Room: 3



**TOBB University of
Economics and Technology**

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