

Wunmi Sadik, Ph.D.

Distinguished Professor and Chair in the Department of Chemistry and Environmental Sciences
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Bio: Wunmi Sadik is a Distinguished Professor and Chair in the Department of Chemistry and Environmental Sciences at the New Jersey Institutes of Technology (NJIT). Until Fall 2019, she was a Professor of Chemistry and Director of the Center for Research in Advanced Sensing Technologies & Environmental Sustainability (CREATES) at SUNY-Binghamton. She did her postdoctoral research at the US Environmental Protection Agency and has held appointments at Harvard University, Cornell University, and the Naval Research Laboratory. Sadik's research areas interests are in biosensors, surface chemistry, environmental chemistry, and nanostructured conducting polymers. Her focus is on understanding of interfaces, in particular, electrochemical interface and how to use this knowledge in the pursuit of innovative bio (analytical) sensing technologies for improving human health and the environment. Although applications abound in a variety of fields, her emphasis is on developing innovative technologies for improving human health, food safety, and the environment. Sadik has published over 200 peer-reviewed papers and 400 invited lectures and conference contributions. Sadik has led her team of researchers in translating basic research in biosensors to design a prototype of a portable, fully autonomous, and remotely operated sensing device, known as a U-PAC (or Ultra-Sensitive Portable Capillary Sensor). She holds five U.S. patents for her work on biosensors and nanostructured membranes. Funded by Bill and Melinda Gates Foundation and the NSF, her group has developed sensors for the blue-green mold *Penicillium italicum*, which is among the most problematic post-harvest plant infections limiting the integrity of citrus and many other crops during storage and transportation. Sadik is a fellow of the Royal Society of Chemistry, Fellow of the American Institute of Medical and Biological Engineering (AIMBE), Jefferson Science Fellow, Brian O'Connell Distinguished Fellow, and Sigma Xi Distinguished Lecturer. She is the recipient of the Harvard's Radcliffe Fellowship, NIH Outstanding Scientific Achievement & WALS Lectureship, SUNY's Award for Outstanding Inventor, Chancellor's Award for Scholarship and Creative Activities, and NSF's Discovery Corps Senior Fellowship. Sadik is the co-founder of the Sustainable Nanotechnology Organization (SNO), and the inaugural Chair of the AGFD's Sub-division of Sustainability and Green Technology.