

Physics Seminar

Friday 2/22/2013, 4:30 pm
Science & Engineering Building 144

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Undergraduate Research of Nanomaterials for Energy, Optical, and Sensor Applications

Research at any undergraduate institution can be very challenging. To address this challenge, we expanded our research interests, projects, and collaborations to (1) provide a variety of meaningful, year-around research experiences for undergraduates and (2) prepare our students for graduate studies in STEM disciplines. The primary goal of this research is to investigate the optical properties of a diverse class of nanostructures to find innovative ways of improving/creating the next class of energy and sensor devices. These devices include solar cells, fuel cells, and biological/chemical sensors for which my research is essential to every step of development from design to evaluation testing and packaging. Undergraduate led projects to be discussed are as follows: Magneto-optical Spectroscopy of Carbon-based Nanomaterials, Fabrication of Chiral Metamaterials, and THz Spectroscopy of Gold Nanorods.

*Please join us for light refreshments
at 4:15pm outside SEB 203.*