



University of Crete
Department of Physics

Physics Colloquium

Thursday, 14 November 2024 | 17:00 – 18:00, Seminar Room 3rd Floor

Conducting Polymers: Rendering electronics soft and flexible

Dr. Eleni Pavlopoulou

Institute of Electronic Structure and Laser, FORTH

ABSTRACT

Since their discovery in 1976, conducting polymers revolutionized electronics, offering the unprecedented ability to fabricate soft and flexible electronic devices, able to comply with wavy surfaces or human body. The Nobel Prize in Chemistry 2000 awarded to H. Heeger, A. MacDiarmid and H. Shirakawa recognized the significance of the discovery. In this talk, I will introduce conducting polymers and the technology that was born thereafter: polymer electronics. After showcasing some of the most important applications of conducting polymers in polymer electronics, we'll focus on polymer bioelectronics, and discuss the case of electronic plants.
