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CITESCORE 2.8

Conjugated Polymers for Bioimaging Applications

Guest Editor:

Dr. Christos Chochos
National Hellenic Research Foundation (NHRF), 48 Vassileos Constantinou Avenue, 11635 Athens, Greece

Deadline for manuscript submissions:
closed (30 April 2021)

Message from the Guest Editor

Dear Colleagues,

I am guest editing a Special Issue titled "Conjugated Polymers for Bioimaging Applications". In this Issue, I would like to present new results on the synthesis, preparation, physicochemical properties, and bioimaging applications of ultraviolet, visible, and near infrared (NIR) π-conjugated polymers, especially in the form of aqueous nanoparticles, the so-called conjugated polymer nanoparticles (CPNs), which have emerged as horizon nanomaterials for optical imaging. Special attention will be focussed on two aspects. The first aspect will cover the synthesis of new NIR conjugated polymers, along with new strategies to impart colloidal stability in water, such as nanoprecipitation, encapsulation, and functionalization, with hydrophilic groups, as well as their structural determination. The second aspect will cover new results on their in vitro and in vivo characterization as optical contrast agents, upon laser excitation, for optical imaging (fluorescence or photoacoustic response) in the ultraviolet, visible, and near infrared (700–1500 nm) wavelength parts of the electromagnetic spectrum.

Dr. Christos Chochos
Guest Editor