

International Conference and Exhibition on

Polymer Chemistry

November 14-16, 2016 Atlanta, USA

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Polymers for energy generation: Molecular structures and applications

Conjugated polymers possess very interesting properties in the sense that they combine the characteristics of molecular materials with properties that are typical of inorganic semiconductors. In this presentation I will discuss the conjugated polymers fundamental properties in relation to their molecular structure, with the aim of two specific applications in energy generation. The first case study is the application in photovoltaic cells, where the specificities of the devices working processes and the recent progress will be discussed. The case application refers to efforts being developed in the use of these materials in the hydrogen generation and water splitting.

Biography

Jorge Morgado has completed his PhD in Chemical Engineering from Instituto Superior Técnico and Post-doctoral studies from the Cavendish Laboratory, Cambridge, UK. He is Associate Professor at IST and Vice-president of IST for academic affairs. He has published more than 125 papers in reputed journals.

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