

Scope and challenges for organic solar cells in the current race to performance

Ludovic Torteck

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Scope and challenges for organic solar cells in the current race to performance

Ludovic Tortech*^{1,2}

¹Institut Parisien de Chimie Moléculaire (IPCM) – Université Pierre et Marie Curie (UPMC) - Paris VI, CNRS : UMR8232 – Université Pierre et Marie Curie (UPMC) 4 place Jussieu 75252 Paris Cedex 05 Bâtiment F/74, France

²CEA Saclay (LICSEN, Laboratoire d'Innovation en Chimie des Surfaces et Nanosciences) – CEA – 91191 Gif-sur-Yvette cedex, France

Abstract

After a brief state of art of the challenges of renewable energy and more sepcifically of the solar cells, the place of organic solar devices will be discuss in front of competitive technology such as Perovskite or CIGS. Indeed organic solar cells reveal numerous advantages competing with higher efficiency devices. Despite that, numerous challenges are emerging with the constant increase of the performance of organic solar cells (OSC); the optimization at each steps of the electronic processes becomes critical. We will pay a specific attention to the charges collection at the electrode and more specifically at the anodic side of the device emphasis the energetic leveling of each material involve.

*Speaker