Impact of the interfacial nanostructures on the electronic processes in organic solar cells
JEAN-LUC BREDAS, Georgia Institute of Technology

After a brief description of the optical and electronic processes that take place in a solid-state organic solar cell [1], we turn our attention to recent theoretical advances regarding the determination of the energetics and dynamics at the organic-organic, donor-acceptor interfaces [2]. We underline the complexity of the processes taking place at the nanoscale [3] and highlight the balance that needs to be found for the optimization of materials parameters in terms of photovoltaic performance.