

## Solar cell based on graphene and perovskite



**Link:** [Scientists develop a more efficient and economical solar cell](#)

The Group of Photovoltaic and Optoelectronic Devices (DFO) at the Universitat Jaume I in Castelló, led by the professor of Applied Physics Juan Bisquert, together with researchers from the prestigious University of Oxford, have created and characterized a photovoltaic device based on a combination of titanium oxide and graphene as charge collector and perovskite as sunlight absorber. The device is manufactured at low temperatures and has a high efficiency. The results of this study were recently published in *Nano Letters*, a prestigious scientific journal with an impact factor of 13,025, which leads the dissemination of news in all branches of the theory and practice of nanoscience and nanotechnology. The article is the result of the research work carried out the last year by the Group of Photovoltaic and Optoelectronic Devices on a topic of high impact within the scientific community of [photovoltaic solar cells](#) based on solid pigments with perovskite structure.