

Ultrafast Dynamics at Interfaces in Metal Halide Perovskites

Rebecca Milot

University of Warwick, Coventry, United Kingdom

Abstract

Metal halide perovskites have attracted much attention for use in several optoelectronic applications, including photovoltaics and light emission. As the efficiencies of perovskite-based solar cells approach their theoretical limits, losses at the interfaces of perovskite thin films are one of the final issues that need to be solved. This presentation will review our recent ultrafast studies of charge-carrier dynamics at the interface of perovskite thin films and other device layers, including charge-transport layers and passivating layers.