

New research project on increasing efficiency of photovoltaic elements

The German government has approved a 2.1 million research proposal in which the nanostructure research group of Saarland University together with Schott AG (Mainz) and two additional partners from Jülich and Jena suggest to improve the efficiency of photovoltaic elements by the introduction of plasmon wave guides. These are intended to optimize the light management within the thin film solar cells. The project involving basic research as well as applied developments will run from June, 2009 until May, 2012. The main task of the nanostructure research group of Saarland University is to design suitable plasmon wave guides and to analyze them by experimental and theoretical means.