



Ulrike Tanner

EHF – Organische und Hybrid-Photovoltaik

Semitransparent organic solar cells and their influence on the growth of microalgae

As a new approach for self-sustainable housing, bioreactors were installed on a façade of a house (algae house, BIQ) in Hamburg. Inside, algae were cultivated and used as biomass for energy production.

In addition to this project, solar panels are going to be installed in front of the bioreactors. Consequently, new solar cells will need to be developed that meet the needs of the algae. Thus, the material for the solar cells should be semitransparent with a suitable transmission spectrum. Also the solar cells should be highly efficient. So far, promising materials have been tested with regard to their effect on the growth of algae.

24.11.2015