

Organic solar cells for communication base station products

Are organic photovoltaics suitable for high-speed optical data receivers?

We show that organic photovoltaics (OPVs) are suitable for high-speed optical wireless data receivers that can also harvest power. In addition, these OPVs are of particular interest for indoor applications, as their bandgap is larger than that of silicon, leading to better matching to the spectrum of artificial light.

Can a solar-panel receiver be used for optical wireless communication?

Wang, Z. X. et al. Towards self-powered solar panel receiver for optical wireless communication. Proceedings of 2014 IEEE International Conference on Communications (ICC), 3348-3353 (IEEE, 2014). Wang, Z. X. et al. On the design of a solar-panel receiver for optical wireless communications with simultaneous energy harvesting.

What is the electron transporting layer of inverted organic solar cells?

For all the inverted organic solar cells fabricated, the electron transporting layer was a thin film of amorphous ZnO(a-ZnO) with a thickness of ~25 nm and was prepared following the method used by Jagadamma et al. 44.

Are solar cells a high-speed data receiver?

Solar cells offer significant promise as high-speed data receivers, in addition to their main usage as energy-harvesting devices, as previously demonstrated in ref. 13,14, and more recently, data rates of up to 500 Mb/s from a single gallium arsenide (GaAs) solar cell have been reported by Fakidis et al. 7.

Volatile organic compounds are partly of natural origin, partly contained in articles of daily use, and can constantly reach our nose and skin. What health effects can VOCs have? How can ...

Cellular base stations powered by renewable energy sources such as solar power have emerged as one of the promising solutions to these issues. This article presents an overview of the ...

Persistent Organic Pollutants) - sind organische Chemikalien, die sich durch ihre Langlebigkeit (Persistenz) auszeichnen, sich in Organismen und damit der Nahrungskette anreichern ...

In this paper we assess the benefits of adopting renewable energy resources to make telecommunications network greener and cost-efficient, ...

The four Member States (MS) Germany, France, the Netherlands and the United Kingdom of Great Britain and Northern Ireland in 2011 have agreed on collaboration in the ...

Volatile organic compounds (VOCs) can be emitted from building products, and their concentrations must therefore be evaluated with regard to the health assessment of indoor air ...

In this paper we assess the benefits of adopting renewable energy resources to make telecommunications network greener and cost-efficient, tackling "3E" combination-energy security,...

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In this paper, several BS power supply systems that are based on renewable energy sources are presented and discussed.

This paper investigates the feasibility of solar photovoltaic (PV) and biomass resources based hybrid supply systems for powering the off-grid Long Term Evolution (LTE) cellular macrocell ...

Designing an integrated communications system with efficient features is important to researchers and designers. This paper deals with a review of the most important technologies and applications that ...

A solar power supply system for communication base stations is an innovative solution that utilizes solar photovoltaic power generation technology to provide power to communication base stations.

Organic farming is a particularly resource-efficient and environmentally friendly form of agriculture based on the principle of sustainability. The avoidance of mineral nitrogen fertilizers and ...

The organic waste management alternatives investigated by the study included leaving organic waste mixed in with residual waste and then processing it at an incineration or mechanical ...

Summary: Discover how solar energy solutions are transforming communication infrastructure, reducing operational costs, and enabling connectivity in remote areas. This guide explores innovative solar ...

Organic agriculture is a more environmentally sustainable and ecologically beneficial type of management. The aim is to close nutrient cycles as far as possible and to manage in harmony ...

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