

Who is Guodong Liu?

Guodong Liu (Senior Member, IEEE) received the Ph.D. degree in electrical engineering from The University of Tennessee, Knoxville, TN, USA, in 2014.

What is Qinghai Gonghe photovoltaic power Park?

The Qinghai Gonghe Photovoltaic Power Park commenced construction in 2012 and was completed in 2015. It employs non-transparent monocrystalline silicon or polycrystalline silicon materials as the core components of the photovoltaic (PV) panels and utilizes three types of installation brackets: fixed, semi-tracking, and tracking.

What is the bulk photovoltaic effect in low-dimensional materials?

The bulk photovoltaic effect in low-dimensional materials exploits built-in polarization to produce photoexcited carriers without the need for a junction. The output photocurrent, however, is low and efforts are underway to scale up the effect.

What is bulk photovoltaic effect (bpve)?

The bulk photovoltaic effect (BPVE)--a second-order nonlinear phenomenon in noncentrosymmetric materials that allows for direct conversion of solar energy into electrical current--provides a promising solution (1 - 5).

Is bpve a p n junction photovoltaic?

Complementary to traditional p - n junction photovoltaics, BPVE holds the potential to circumvent the Shockley-Queisser limitation that intrinsically exists in conventional solar cells (6 - 8).

Do photovoltaic panels increase bacterial and archaeal diversity?

Such changes in soil water and thermal conditions, along with changes in vegetation communities, have resulted in a minor increase in bacterial and archaeal diversity beneath photovoltaic panels compared to the respective control areas outside. Distribution of evaluation indicator scores in the impact layer.

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