

New High Efficiency Solar Cell Design

There is an enormous market for high efficiency solar cell that can be readily manufactured. Many new high efficiency designs such as the four band cell have been demonstrated at lab scale, but these designs are not capable of easy manufacture.

University of California researchers have developed a novel solar cell design with many advantages. The UC design has enhanced light absorption, improved carrier transport, and a theoretical maximum efficiency of over 70%. The new UC design is two-layered and lends itself to mass production using conventional manufacturing technologies.

UC is in the process of making and testing prototypes of the solar cell. We are looking for commercial partners interested in evaluating and developing the new design.

