

Solar pv cells

(solar cell),(photovoltaic cell)1;1;3;),?,,,?

?CdTe?CIGS(:Copper indium gallium selenide)????,(:Silicon-air battery)),25.0%,20.4%,CIGS19.8%,CdTe19.6%,()10.1%?1;2;3;

?(Photovoltaics),photo-(,)volta,(?(Alessandro Volta)),,?

?1994,3???,49%,???,?,?

1996,2,600,8?,9,400,32?,,?

(,,,)O,,?;P,,,,N,?

,1 - 3 eV,PN,,1.5 eV,?1;3;93;

,??CdTe?CuInxGa(1-x)Se2???

(Potential Induced Degradation)PID,,20-25,,?,,,?,PID???

,,,?,? 2005,PID???,PID?

,,,PID?PID,50%,?PID?

?,???(EVA)PID,EVA,PID?,PID;

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