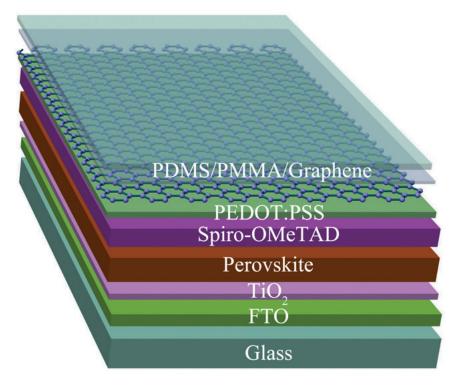
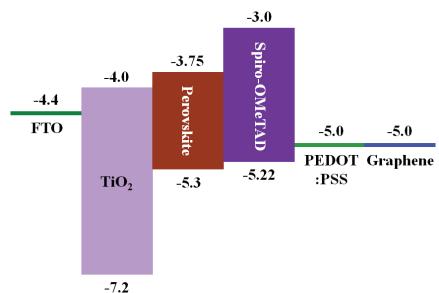




High Efficient Semitransparent Perovskite Solar Cells

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Developing transparent semitransparent solar cells high efficiency and low cost has increasingly become important due to the increasing demands of building the integrated photovoltaics (BIPVs) systems. An efficient low-cost and semitransparent perovskite solar with graphene electrodes have been successfully developed. The power conversion efficiencies (PCEs) of this novel invention are 12% around when thev illuminated from fluorine-doped tin oxide (FTO) bottom electrodes or the graphene top electrodes, compared with 7% of conventional semitransparent solar cells. addition. semitransparent the feature enables it to absorb light can from both sides. and widely used in windows. facades, louvers and rooftops of buildings for converting solar into electricity, energy thus increasing the surface area for solar collecting energy substantially.



