

Title: PMMA for solar

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In this work, the down-conversion effect of carbon quantum dots (CQDs) was employed to convert the UV fraction of the incident light into visible light. For this, thin films of poly (methyl methacrylate) with embedded ...

In solar energy applications, PMMA is widely used as a protective cover for photovoltaic panels due to its excellent optical properties and weather resistance. It offers high light transmission, which is ...

Sequential fabrication of carbon solar cells (SCs) was performed under ambient conditions, where FTO/graphene/single-walled carbon nanotubes/graphene quantum dots-fullerene/carbon black paste layers were ...

A promising material in this group is Poly (methyl methacrylate) (PMMA). PMMA, also known as acrylic, is a commonly used transparent thermoplastic with good impact strength and a glass transition ...

applications of PMMA thin films could be extended to ARCs on crystalline silicon solar cells and as photo resists to enable textures to be drawn on the surface of silicon to allow the concentration of light for solar ...

PMMA is proposed to mitigate interfacial charge losses and to induce a more favourable distribution of 2D perovskite phases, elucidating a pathway towards the development of high-performance tin ...

We fabricated a perovskite solar antenna with high antenna gain. Poly (methyl methacrylate) (PMMA) was used to encapsulate the solar cell of the antenna. PMMA was also used as the dielectric layer ...

The goal of this study is to see how polymethyl methacrylate (PMMA) affects the surface temperature of the polycrystalline solar cell. The sol-gel process is used to prepare a PMMA coating for ...

Here, we demonstrate an approach to fabricate void-passivated transparent perovskite films by utilizing a poly (methyl methacrylate) (PMMA) as a framework for crystal growth.



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