

In the one-step spin-coating approach (Method I), a 40 wt% solution of MAPbI<sub>3</sub> was synthesized by combining 0.253 gr of MAI and 0.147 gr of commercially available PbI<sub>2</sub> ...

The deposition of a thin film of PMMA via spin coating onto a solar cell results in a 20-30% relative increase in short circuit current density and stable power output density. [View Show abstract](#)

The challenges of the one-step spin-coating method have been overcome by the development of new deposition techniques, resulting in advancements in solar cells based on ...

Due to the humidity sensitive nature of the lead halide perovskite materials, high-performance perovskite solar cells (PSCs) can only be fabricated in glove boxes with inert gas protection. This work introduces a ...

In this work, perovskite solar cells were created using a two-step spin coating procedure. The ...

A new hybrid organic-inorganic structure of FTO/TiO<sub>2</sub>/Se/HTL/Au based selenium solar cell has been fabricated through a low-cost spin-coating process in air. In this process, selenium is ...

After optimizing the ethanol/methanol ratio, high quality FA<sub>1-x</sub>Cs<sub>x</sub>PbI<sub>3</sub> perovskite film with large perovskite crystal, low defect density and long carrier life time can be ...

In this work, perovskite solar cells were created using a two-step spin coating procedure. The perovskite solar cells were thermally annealed between 90 and 120 °C in order to ascertain ...

On one side, spin-coating and blade-coating require TICs largely above 1000 USD while on the other hand, spray-coating and push-coating have TICs below 1000 USD. ...

Second-generation solar cells, commonly known as thin-film solar cells, have emerged as promising alternatives to traditional silicon-based first-generation photovoltaic ...

A new hybrid organic-inorganic structure of FTO/TiO<sub>2</sub>/Se/HTL/Au based selenium solar cell ...

Perovskite solar cells in a fiber format have great potential for wearable electronics due to their excellent flexibility, efficient light harvesting, and potentially high power ...

Champion perovskite solar cells demonstrate power conversion efficiencies as high as 19.9%, proving the transferability of established manual spin-coating processes to automatic setups. Comparison with human experts ...

# Automatic spin coating of solar cells

Champion perovskite solar cells demonstrate power conversion efficiencies as high as 19.9 %, proving the transferability of established manual spin-coating processes to auto-matic setups. ...

We developed a simultaneous spin-coating/solvent-annealing process and demonstrated morphology optimization for PTB7 based organic photovoltaics. This novel processing method ...

Roll-to-roll (R2R) production is essential for commercial mass production of organic photovoltaics, avoiding energy costs related to the inert atmosphere or vacuum steps. ...

In this study, the spin coating process was used to develop perovskite solar cells in a two-step process. Thermal annealing of the perovskite solar cells was done from 90 to ...

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