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Deep insights into the advancements and applications of perovskite based photovoltaic cells

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Highlights

- Flexible substrates like PET i.e Polyethylene terephthalate is utilized to manufacture flexible solar cells.
- Carbon can be used as electrode in PSC without hole transport layer.
- Coating of thin layer of MAPbI₃ on PbS quantum dot solar cell upgrades the J_{sc} i.e short circuit current density and PCE.
- Photodetectors based on solution-processed MAPbI₃ results in high detectivity of 10¹⁴ Jones and a quick photoresponse.

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