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PII: S0025-5408(18)30398-2
DOI: https://doi.org/10.1016/j.materresbull.2018.04.015
Reference: MRB 9953

To appear in: *MRB*

Received date: 5-2-2018
Revised date: 9-4-2018
Accepted date: 9-4-2018

Please cite this article as: Wei J, Huang F, Wang S, Zhou L, Xin Y, Jin P, Cai Z, Yin Z, Pang Q, Zhang JZ, Highly Stable and Efficient Hybrid Perovskite Solar Cells Improved with Conductive Polyanilines, *Materials Research Bulletin* (2010), https://doi.org/10.1016/j.materresbull.2018.04.015

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Graphical abstract

The acidified conductive polyanilines provides a large number of $-NH_2^+-$ groups to array on the surface of perovskite grains through an ionic bond with the negative charge of iodide ions, and assists in the hole transport to carbon.