## **Accepted Manuscript**

Title: Highly Stable and Efficient Hybrid Perovskite Solar Cells Improved with Conductive Polyanilines

Authors: Jianwu Wei, Furong Huang, Sangni Wang, Liya Zhou, Youling Xin, Peng Jin, Zhuo Cai, Zuodong Yin, Qi Pang, Jin Zhong Zhang

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

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## ACCEPTED MANUSCRIPT

# Highly Stable and Efficient Hybrid Perovskite Solar Cells Improved with Conductive Polyanilines

Jianwu Wei <sup>a</sup>, Furong Huang <sup>a</sup>, Sangni Wang <sup>a</sup>, Liya Zhou <sup>a</sup>, Youling Xin<sup>a</sup>, Peng Jin<sup>a</sup>, Zhuo Cai<sup>a</sup>,

Zuodong Yin<sup>a</sup>, Qi Pang <sup>a.\*</sup>, Jin Zhong Zhang<sup>b</sup>

<sup>a</sup> School of Chemistry and Chemical Engineering, Guangxi University, 100 University Road,

Nanning 530004, China

<sup>b</sup>Department of Chemistry and Biochemistry, University of California, Santa Cruz, California

95064, USA

\*Correspondence author: Qi Pang. Tel: +86-15807819568, E-mail: pqigx@163.com

#### **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.

#### Download English Version:

# https://daneshyari.com/en/article/7904326

Download Persian Version:

https://daneshyari.com/article/7904326

<u>Daneshyari.com</u>