



CrossMark  
click for updates

Cite this: *J. Mater. Chem. A*, 2015, 3, 9318

DOI: 10.1039/c5ta90087e

www.rsc.org/MaterialsA

## Correction: Inorganic p-type contact materials for perovskite-based solar cells

Ming-Hsien Li,<sup>a</sup> Po-Shen Shen,<sup>a</sup> Kuo-Chin Wang,<sup>a</sup> Tzung-Fang Guo<sup>abc</sup> and Peter Chen<sup>\*abc</sup>

Correction for 'Inorganic p-type contact materials for perovskite-based solar cells' by Ming-Hsien Li *et al.*, *J. Mater. Chem. A*, 2015, DOI: 10.1039/c4ta06425a.

A relevant article (*J. Mater. Chem. A*, 2014, 2, 12754–12760) was not included in the above review however it is included in the revised Table 1 and Fig. 11 below.

**Table 1** Summary of photovoltaic parameters of PSC based on inorganic p-type semiconductor

Number	Types	HTM	Device structure	Photovoltaic parameters			Ref.
				$V_{OC}$ (mV)	$J_{SC}$ (mA cm <sup>-2</sup> )	PCE (%)	
<b>n-i-p junction</b>							
#1	Mesoscopic	CuSCN	FTO/cp-TiO <sub>2</sub> /mp-TiO <sub>2</sub> /PsK/CuSCN/Au	630	14.5	4.9	10
#2	Mesoscopic	CuSCN	FTO/cp-TiO <sub>2</sub> /mp-TiO <sub>2</sub> /Sb <sub>2</sub> S <sub>3</sub> /PsK/CuSCN/Au	570	17.2	5.12	12
#3	Mesoscopic	CuSCN	FTO/cp-TiO <sub>2</sub> /mp-TiO <sub>2</sub> /PsK/CuSCN/Au	1016	19.7	12.4	9
#4	Mesoscopic	CuI	FTO/cp-TiO <sub>2</sub> /mp-TiO <sub>2</sub> /PsK/CuI/Au	550	17.8	6	13
#5	Mesoscopic	NiO	FTO/cp-TiO <sub>2</sub> /mp-TiO <sub>2</sub> /PsK/mp-NiO/carbon	890	18.2	11.4	38
#6	Planar	CuSCN	FTO/cp-TiO <sub>2</sub> /PsK/CuSCN/Au	727	14.4	6.4	55
<b>p-i-n junction</b>							
#7	Planar	CuSCN	FTO/CuSCN/PsK/PCBM/Ag	677	8.8	3.8	11
#8	Planar	NiO	FTO/NiO/PsK/PCBM/Ag	786	14.2	7.3	11
#9	Planar	NiO	ITO/NiO <sub>x</sub> (solution)/PsK/PCBM/BCP/Al	920	12.4	7.8	15
#10	Planar	NiO	ITO/NiO/PsK/PCBM/Al	1050	15.4	7.6	14
#11	Planar	NiO	FTO/NiO (sputter)/PsK/PCBM/BCP/Au	1100	15.2	9.8	19
#12	Planar	NiO	ITO/Cu:NiO <sub>x</sub> /PsK/PC <sub>61</sub> BM/C <sub>60</sub> /Ag	1110	19.0	15.4	20
#13	Mesoscopic	NiO	FTO/cp-NiO/mp-NiO/PsK/PCBM/Al	830	4.9	1.5	18
#14	Mesoscopic	NiO	FTO/NiO (sol-gel)/PsK/PCBM/Au	882	16.3	9.1	21
#15	Mesoscopic	NiO	ITO/NiO <sub>x</sub> (solution)/mp-NiO/PsK/PCBM/BCP/Al	1040	13.2	9.5	17
#16	Mesoscopic	NiO	ITO/NiO <sub>x</sub> (sputter)/mp-NiO/PsK/PCBM/BCP/Al	960	19.8	11.6	16
#17	Super-mesoscopic	NiO	ITO/NiO <sub>x</sub> (spray)/mp-Al <sub>2</sub> O <sub>3</sub> /PsK/PCBM/BCP/Ag	1040	18.0	13.5	22

<sup>a</sup>Department of Photonics, National Cheng Kung University, Tainan, Taiwan 701. E-mail: petercyc@mail.ncku.edu.tw

<sup>b</sup>Research Center for Energy Technology and Strategy (RCETS), National Cheng Kung University, Tainan, Taiwan 701

<sup>c</sup>Advanced Optoelectronic Technology Center (AOTC), National Cheng Kung University, Tainan, Taiwan 701





Fig. 11 PCE revolution of PSC based on inorganic p-type semiconductor.

## Reference

55 S. Chavhan, O. Miguel, H.-J. Grande, V. Gonzalez-Pedro, R. S. Sánchez, E. M. Barea, I. Mora-Seró and R. Tena-Zaera, *J. Mater. Chem. A*, 2014, 2, 12754–12760.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

