

CORRECTION

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Correction: Interfacial engineering between SnO₂/MAPbI₃ by maleate pheniramine halides toward carbon counter electrode-based perovskite solar cells with 16.21% efficiency

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Correction for 'Interfacial engineering between SnO₂/MAPbI₃ by maleate pheniramine halides toward carbon counter electrode-based perovskite solar cells with 16.21% efficiency' by Duoling Cao et al., *Mater. Chem. Front.*, 2023, <https://doi.org/10.1039/d2qm01149b>.

The authors regret that a number of carboxyl functional groups have been labelled incorrectly in the original article. The corrections and corrected sentences are shown below.

The sentence beginning "Among them...", "(O=C=O)" has been corrected to "(COOH)":

"Among them, carboxyl (COOH)^{28–30} and halide (Cl,^{31,32} Br,³³ etc.) groups can coordinate with the undercoordinated interfacial metal atoms, such as Sn and Pb, to regulate the energy levels of SnO₂, passivate the defect density at the SnO₂/perovskite interface, and ultimately improve the device performance."

The sentence beginning "The perovskite...", "(C=O)" has been corrected to "(COOH)":

"The perovskite film would become more compact and smooth due to the interaction between carboxyl groups (COOH) and the undercoordinated Pb²⁺ 34,"

The sentence beginning "On the one hand...", "C=O" has been corrected to "COOH":

"On the one hand, the COOH in CHM or BHM can be esterified with OH on the surface of the SnO₂ film to passivate the defects and avoid the oxidative decomposition of SnO₂, thereby improving the device stability.³⁸

The sentence beginning "On the other hand...", "C=O" has been corrected to "COOH":

"On the other hand, the electron-donating COOH on CHM or BHM can interact with the undercoordinated Pb²⁺ ions in the MAPbI₃ perovskite, promoting the crystallization of the perovskite and passivating the film defects.^{25,33,36}"

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

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