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Corrigendum: Integration of CdSe/ CdSe_xTe_{1-x} Type-II Heterojunction Nanorods into Hierarchically Porous TiO₂ Electrode for Efficient Solar Energy Conversion

Sangheon Lee, Joseph C. Flanagan, Joonhyeon Kang, Jinhyun Kim, Moonsub Shim & Byungwoo Park

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This Article contained errors.

In the Abstract,

“Additional ~32% enhancement in power conversion efficiency is achieved by introducing percolation channels of large pores in the mesoporous TiO₂ electrode, which allow 1-D sensitizers to infiltrate the entire depth of electrode.”

now reads:

“Additional ~31% enhancement in power conversion efficiency is achieved by introducing percolation channels of large pores in the mesoporous TiO₂ electrode, which allow 1-D sensitizers to infiltrate the entire depth of electrode.”

In the Introduction section,

“About 40% enhancement of the PCE is achieved using HNRs compared to the PCE using CdSe nanorods (NRs), which can be attributed to the inherent efficient charge separation across the type-II heterointerface and favorable effects of 1-octanethiol (OT) surface ligands on the TiO₂-HNR interfacial charge transfer.”

now reads:

“About 33% enhancement of the PCE is achieved using HNRs compared to the PCE using CdSe nanorods (NRs), which can be attributed to the inherent efficient charge separation across the type-II heterointerface and favorable effects of 1-octanethiol (OT) surface ligands on the TiO₂-HNR interfacial charge transfer.”

In Figure 6b, the x-axis ‘Depth (μm)’ was incorrectly given as ‘Wavelength (nm)’. The correct Figure 6b appears below as Figure 1.

In the Results section under subheading ‘The Effect of Polystyrene Bead-Induced Percolating Pores on the PV Performance’,

“Our simple approach utilizing sacrificial spherical additives results in ~32% additional enhancement in J_{sc} compared to the OT-CdSe/CdSe_{0.4}Te_{0.6} HNR-SSC from the mp-TiO₂ electrode without polystyrene microbead-induced percolating pores, yielding a 3.02% efficient PV device.”

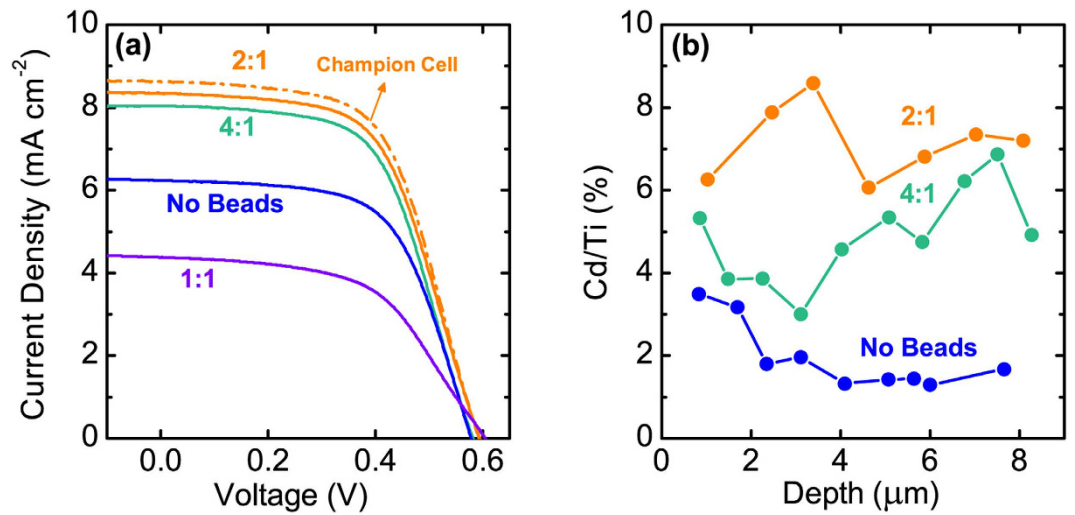


Figure 1.

now reads:

“Our simple approach utilizing sacrificial spherical additives results in ~34% additional enhancement in J_{sc} compared to the OT-CdSe/CdSe_{0.4}Te_{0.6} HNR-SSC from the mp-TiO₂ electrode without polystyrene microbead-induced percolating pores, yielding a 3.02% efficient PV device.”

These errors have now been corrected in the PDF and HTML versions of the Article.



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