

Supporting Information

A strategy to improve energy conversion efficiency and stability in quantum dot-sensitized solar cells: Manganese-doped cadmium sulfide quantum dots

Chandu V.V.M. Gopi, M.Venkata-Haritha, Soo-Kyoung Kim, Hee-Je Kim*

*School of Electrical Engineering, Pusan National University, Gumjeong-Ku, Jangjeong-Dong,
Busan 609-735, South Korea*

*Corresponding authors. Tel.: +82 51 510 7334; fax: +82 51 513 0212.

E-mail addresses: heeje@pusan.ac.kr (H.-J. Kim).

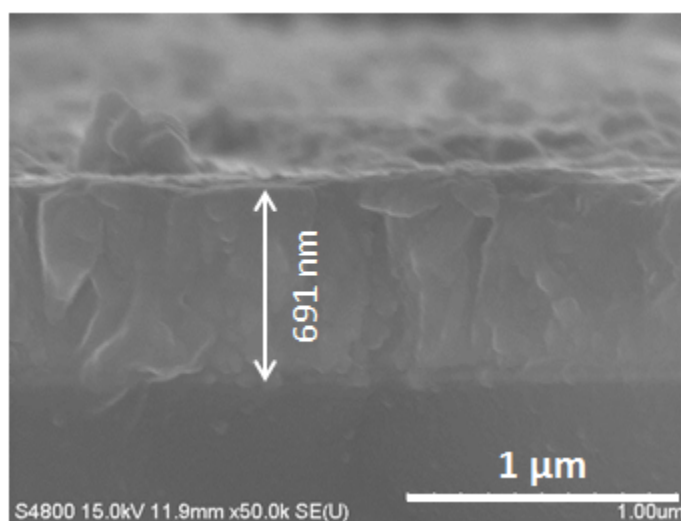


Fig. S1. SEM cross-sectional thickness of CuS

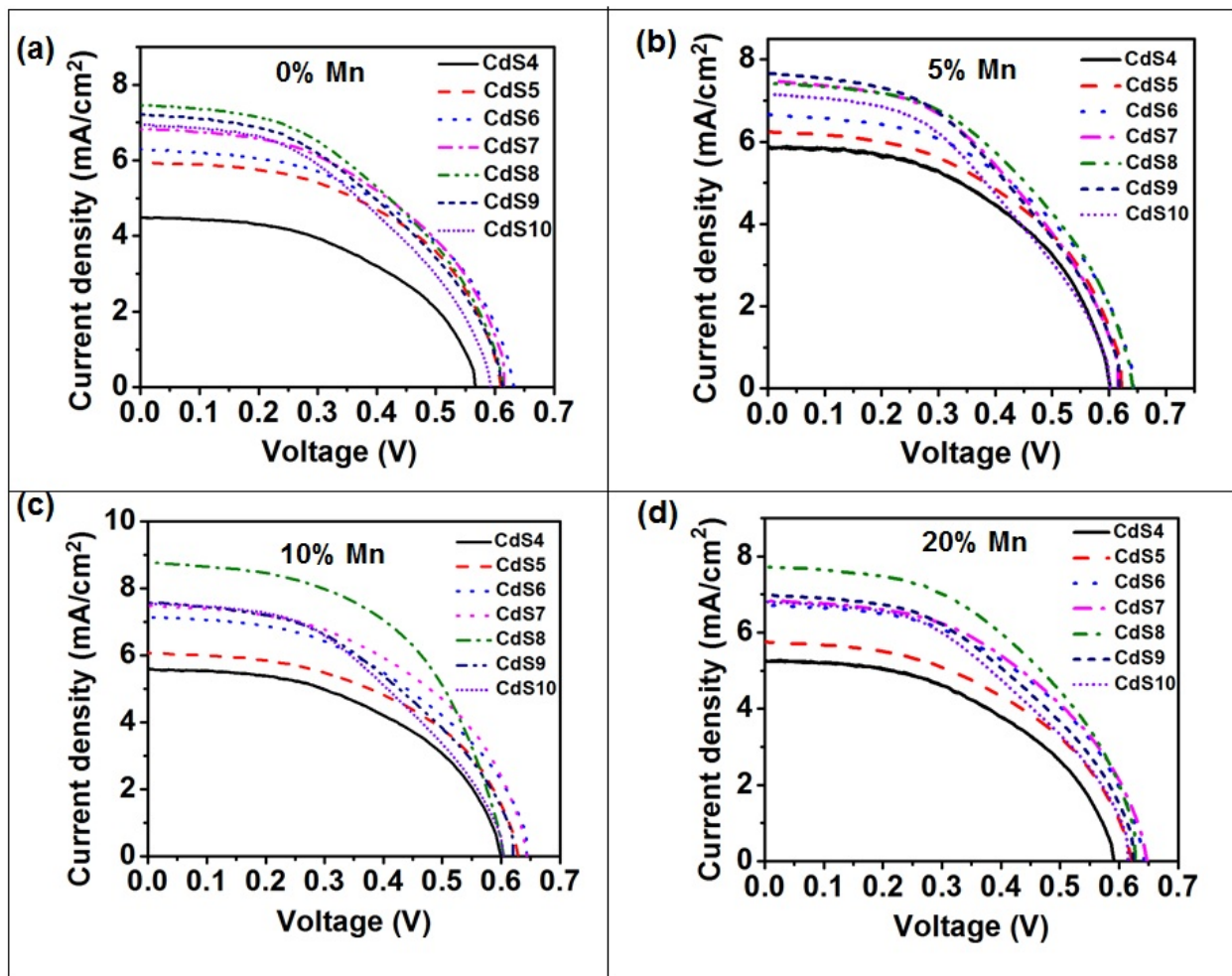


Fig. S2. Power conversion efficiency optimization using J-V curves based on (a) CdS, (b) 5% Mn-CdS, (c) 10% Mn-CdS, (d) 20% Mn-CdS QDSSC with CuS counter electrode and polysulfide electrolyte.