

Type-II Nanorod Heterostructure Formation through One-Step Cation Exchange

Meng-Yu Chen and Yung-Jung Hsu*

Department of Materials Science and Engineering, National Chiao Tung University,
Hsinchu, Taiwan 30010, Republic of China.

*E-mail: yhsu@cc.nctu.edu.tw

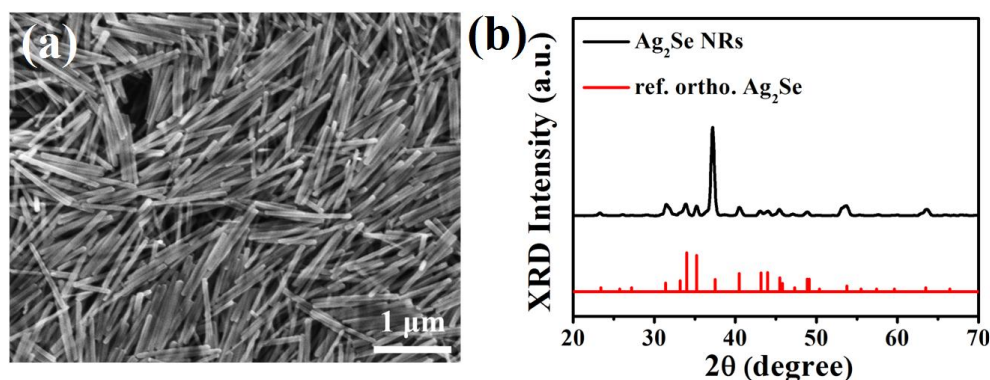


Fig. S1. (a) SEM image and (b) XRD pattern of Ag₂Se NRs obtained by direct insertion of Ag⁺ into Se NRs.

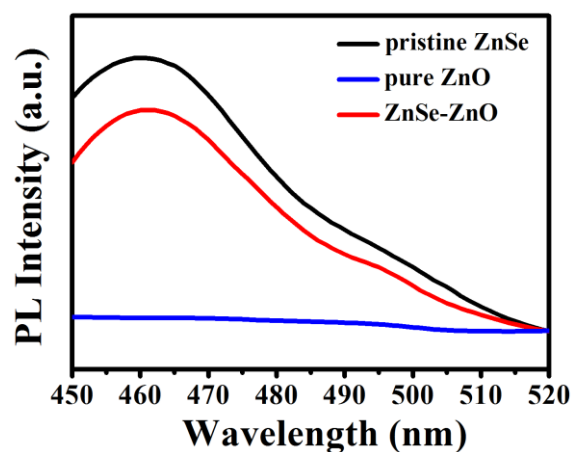


Fig. S2. Steady-state PL spectra for pristine ZnSe, pure ZnO and ZnSe-ZnO-1 NRs. The excitation wavelength was 375 nm.

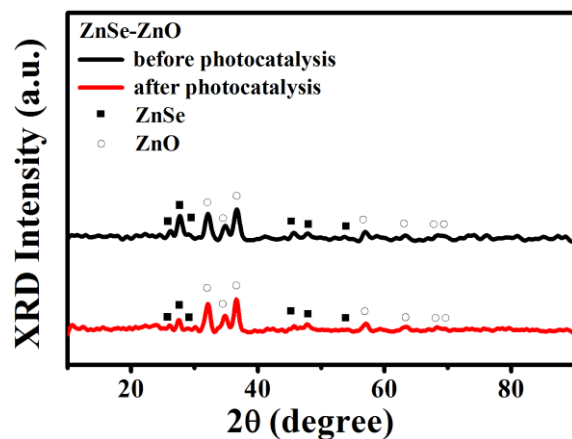


Fig. S3. Comparison of XRD pattern for ZnSe-ZnO-1 NRs before and after used in RhB photodegradation for 2 hr.

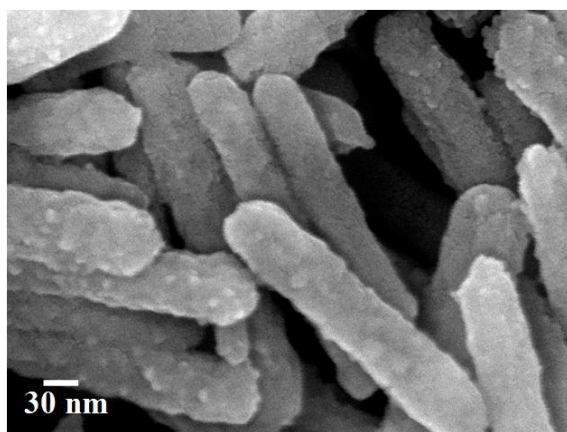


Fig. S4. SEM image of CdO-decorated CdSe NRs obtained by replacing $\text{Zn}(\text{NO}_3)_2$ with $\text{Cd}(\text{NO}_3)_2$ in the cation exchange reaction.