Assembly of Binary Ternary and Quaternary Nanorods: From Local to Device Scale Ordering Influenced by Surface Charge

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Supporting Information

Figure S1. Energy-dispersive X-ray spectroscopy (EDX) of four types of nanorods.



Figure S2. HRTEM of four types of nanorods with corresponding Fast Fourier transform (FFT) and the *d*-spacing of (002) planes.



Figure S3. XRD spectra of as-synthesised CdS, $CdSe_xS_{1-x}$, CZTS and CIGS nanorods.



Figure S4. High resolution TEM image of assembled CZTS nanorods with their corresponding fast Fourier transform (FFT)



Figure S5. (a) SEM image of 2D assembly of CdS nanorods, (b) 1D assembly of CdS nanorods.



Figure S6. (a) SEM image of self-assembled CZTS nanorods in a vial (b) DF-STEM image of self-assembled CZTS nanorods, (c) HR-TEM of top view of assembled CZTS nanorods.