

Colloidal Zn_3X_2 ($\text{X} = \text{P}, \text{As}$) Quantum Dots with Metal Salts and Their Transformation into $(\text{In}_y\text{Zn}_{1-y})_3\text{X}_2$ via Cation-Exchange Reactions

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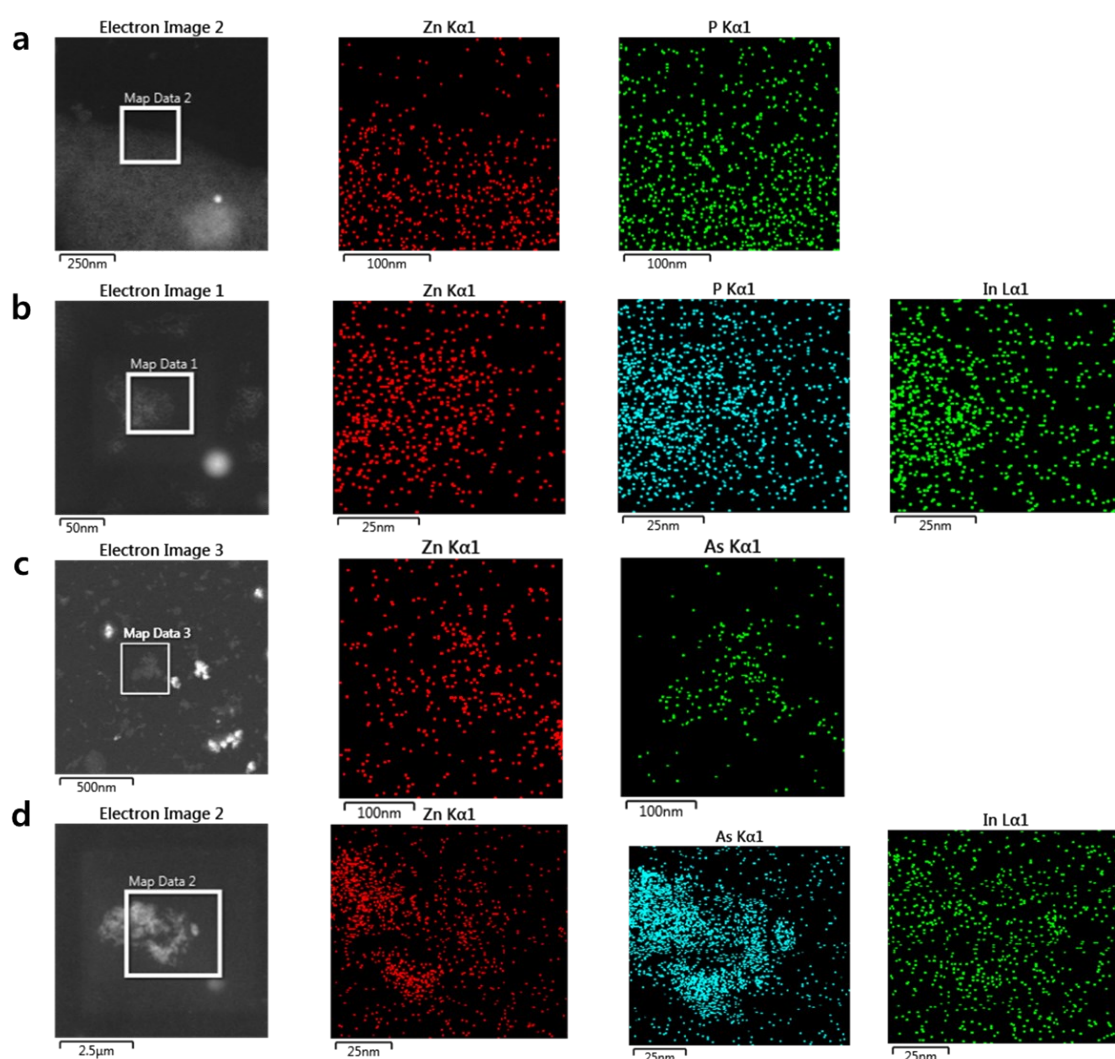


Figure S1. STEM-mapping data of (a) Zn_3P_2 QDs, (b) $(\text{InZn})_3\text{P}_2$ QDs, (c) Zn_3As_2 QDs and (d) $(\text{InZn})_3\text{As}_2$ QDs.

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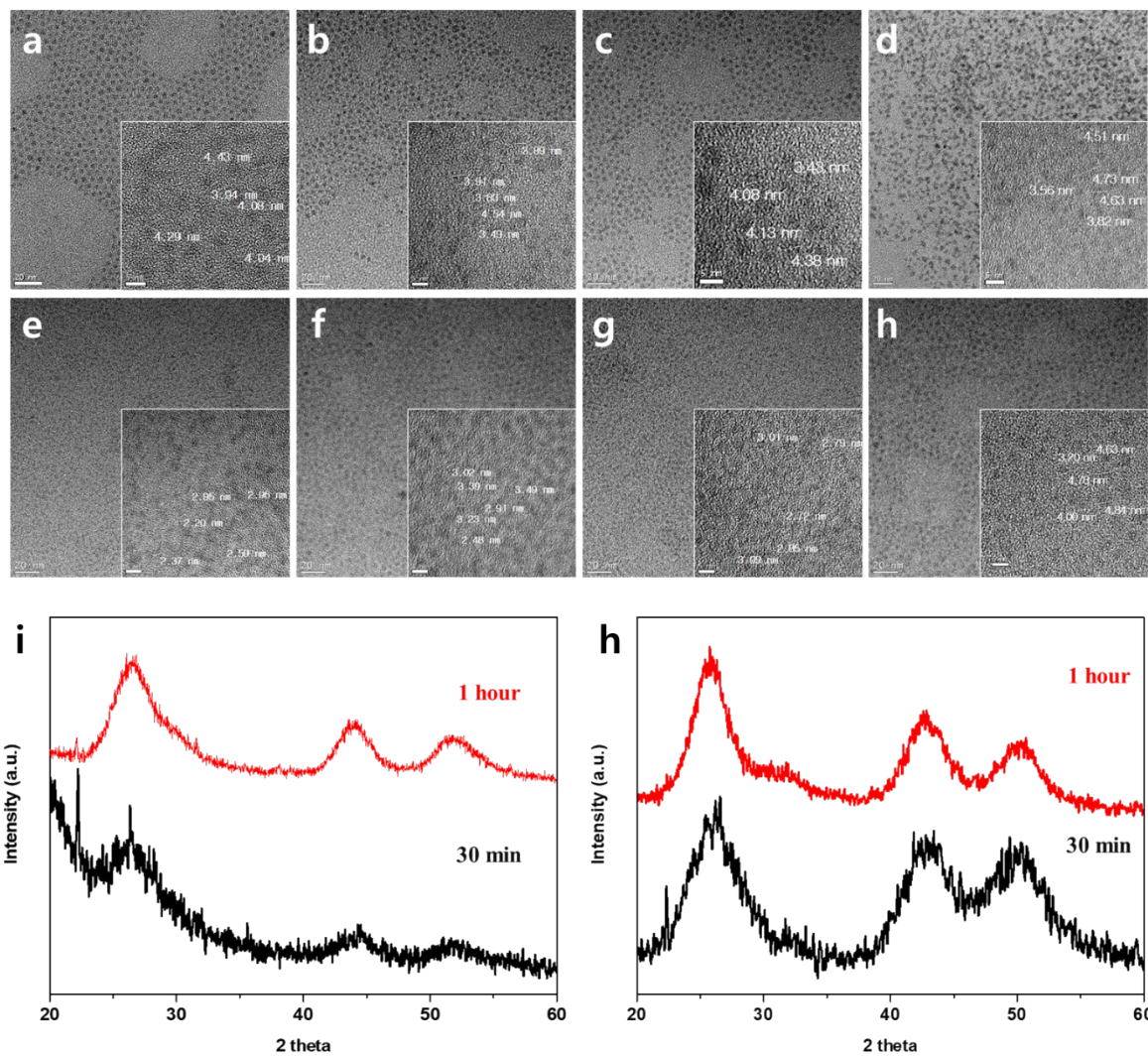


Figure S2. TEM data of $(\text{InZn}_{1-y}\text{P}_{1-y/3}\text{As}_2)_y$ QD and $(\text{InZn}_{1-y}\text{P}_{1-y/3})_y$ QD according to the growth time under 50% indium addition. (a) 1 min (b) 15 min, (c) 30 min and (d) 60 min for $(\text{InZn}_{1-y}\text{P}_{1-y/3})_y$ QD, (e) 1 min (f) 15min, (g) 30 min and (h) 60 min for $(\text{InZn}_{1-y}\text{P}_{1-y/3}\text{As}_2)_y$ QD. XRD data on 30 min and 1 h growth time (i) $(\text{InZn}_{1-y}\text{P}_{1-y/3})_y$ QDs, (e) $(\text{InZn}_{1-y}\text{P}_{1-y/3}\text{As}_2)_y$ QDs.

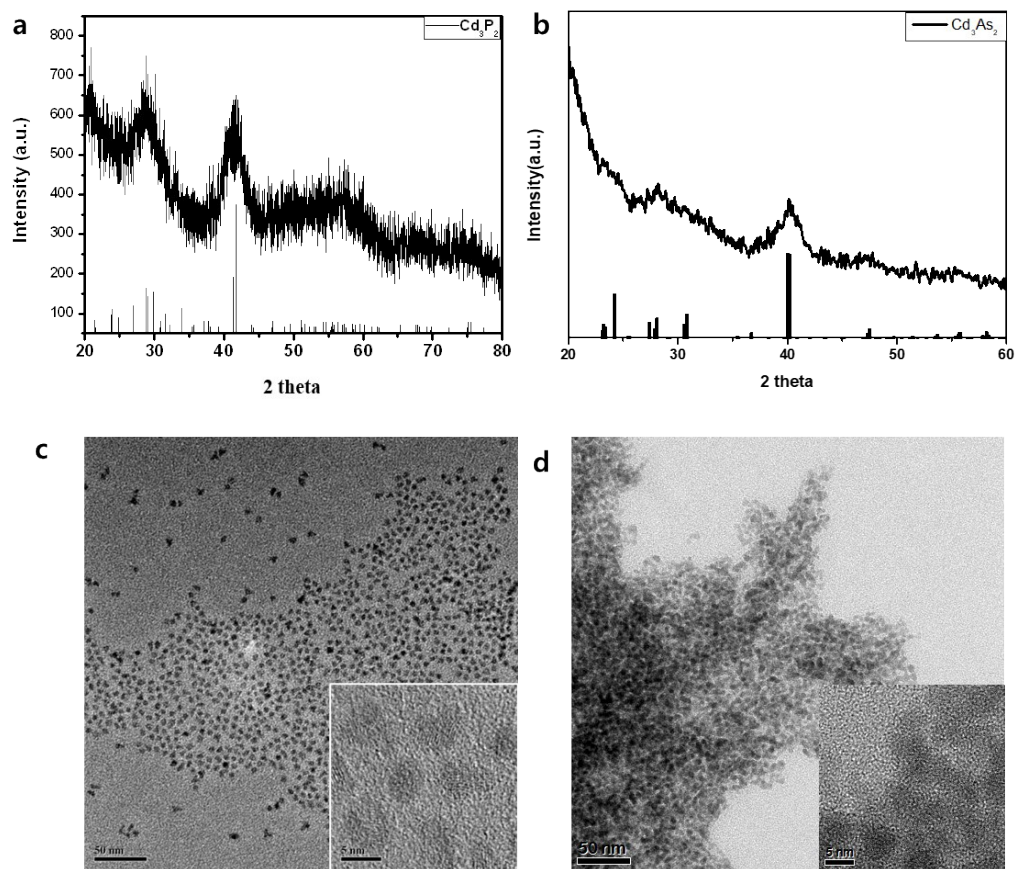


Figure S3. XRD data for (a) $(\text{Cd}_{1-y}\text{Zn}_y)_3\text{P}_2$ QDs, (b) $(\text{Cd}_{1-y}\text{Zn}_y)_3\text{As}_2$ QDs. TEM images of (c) $(\text{Cd}_{1-y}\text{Zn}_y)_3\text{P}_2$ QDs, (d) $(\text{Cd}_{1-y}\text{Zn}_y)_3\text{As}_2$ QDs,