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Table S1 The chemical compositions (relative molars) identified using EPMA for $In_{2-x}Zn_xSe_3$ (x=0.005, 0.01, 0.02) (each taken from a mapping).

| Sample | In | Zn | Se |
|----------------------------|-------|-------|-------|
| $In_{1.995}Zn_{0.005}Se_3$ | 2.047 | 0.004 | 2.949 |
| $In_{1.99}Zn_{0.01}Se_3$ | 2.051 | 0.008 | 2.941 |
| $In_{1.98}Zn_{0.02}Se_3$ | 2.005 | 0.016 | 2.979 |