

*Supporting Information*

**Polytypic ZnCdSe Shell Layer on ZnO Nanowire Array for Enhanced Solar Cell**

**Efficiency**

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**Table S1:** Composition and area fraction of two or three resolved XRD peaks, and average mole fraction.

<i>x</i>	P1			P2			P3			<i>x<sub>avg</sub></i> <sup>1</sup>
	2θ	<i>x</i> <sub>1</sub>	<i>f</i> <sub>1</sub>	2θ	<i>x</i> <sub>2</sub>	<i>f</i> <sub>2</sub>	2θ	<i>x</i> <sub>3</sub>	<i>f</i> <sub>3</sub>	
<b>0.2</b>	25.6	0.10	0.34	25.8	0.22	0.66				0.18
<b>0.3</b>	25.6	0.13	0.30	25.9	0.30	0.55	26.4	0.56	0.15	0.30
<b>0.5</b>	26.0	0.35	0.22	26.4	0.58	0.50	26.8	0.82	0.28	0.60
<b>0.7</b>	26.3	0.53	0.23	26.6	0.73	0.77				0.68
<b>0.8</b>	26.4	0.56	0.23	26.9	0.85	0.77				0.78

<sup>1</sup>  $x_{avg} = \sum x_i f_i$