

## Electronic Supplementary Information#

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### **A novel approach for controlled oriented growth of non-polar *m*-plane ZnO thin films via low temperature chemical solution route**

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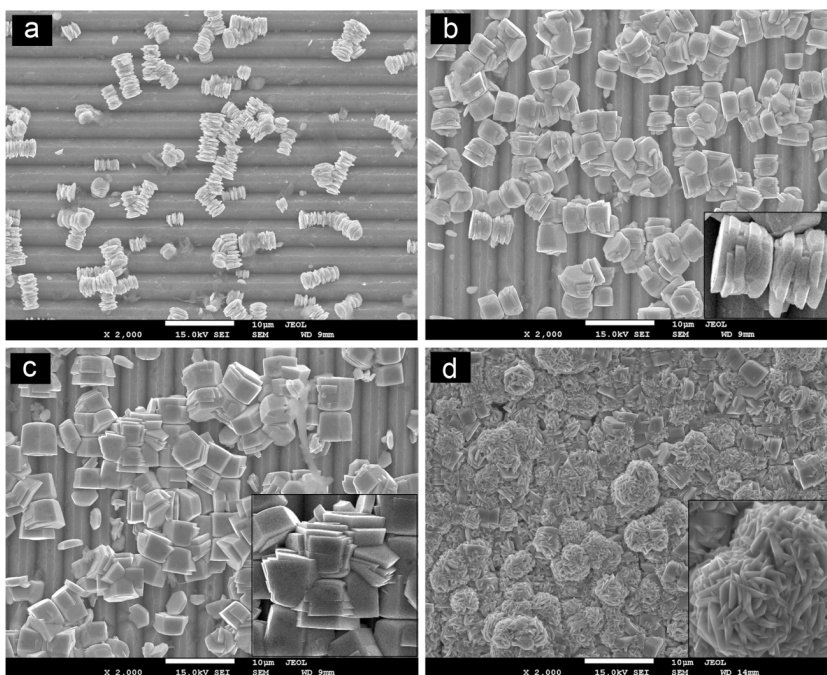
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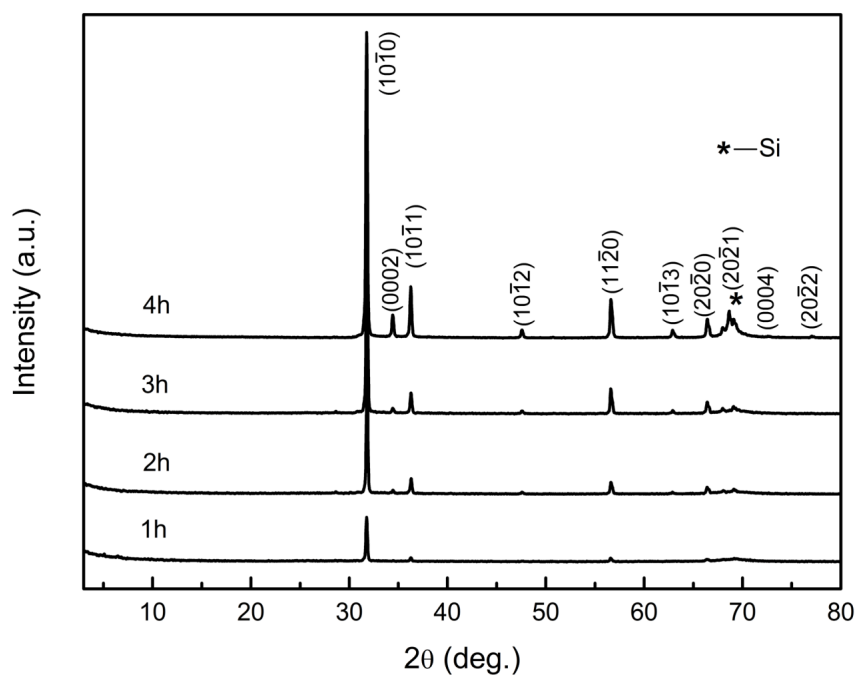
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**Fig. S1** Low FESEM images of solution grown films at 85 °C after different reaction time (a) 1 h; (b) 2 h (inset showing a partially recrystallized twinned rod with neck-shape boundary at the concentric point); (c) 3 h (inset showing agglomeration and impinging of rods); (d) 4 h (inset showing a twinned rod completely covered with nano-plates forming 'flower like' structure)

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**Fig. S2** XRD patterns of 2<sup>nd</sup> step solution grown films at 85 °C after 1 h, 2 h, 3 h and 4 h reaction time