Support Information

Nano-Cubic ZnSn(OH)$_3$ Based on Stannate Reaction with the Liquid Laser Ablation-induced ZnO below Room Temperature

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Figure S1 The FESEM images of the sample after annealing at different temperatures. (a): as-prepared ZHS nanocubes. (b)-(d): after annealing at 300 °C, 600 °C and 800 °C for 4 h, respectively.

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Figure S2 (a): TEM image for the as-prepared sample after incomplete reaction (for less than 1 h) at 5 °C. (b): The EDX results corresponding to the area marked in (a).
Figure S3 XRD patterns of the products after reaction at 5 °C for 1h corresponding to the different molar ratios of ZnO to Na$_2$SnO$_3$. (a): 5:3, (b): 1:10. The products consist of ZHS and ZnO for (a), and ZHS, SnO$_2$ and Na$_2$SnO$_3$ for (b).
Figure S4 TEM images of the ZnO nanoparticles, bought from Alfa Aesar, before (a) and after (b) reaction with Na$_2$SnO$_3$ in solution at 5 °C for 1 h.