Electronic Supplementary Information

Probing the growth mechanism of hierarchical architectures of PbTe synthesized through triethanolamine-assisted solvothermal method and their shape-dependent electrical transport properties

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Fig. S1 SEM image of the product obtained at the different volume ratio of $V_{\text{TEA}}:V_{\text{H}_2\text{O}} = 4:1$ and 1:4.
Fig. S2 XRD pattern of the product obtained in the absence of Pb(Ac)$_2$, indicating the product is pure Te.
Fig. S3 SEM image of the product obtained when Pb$^{2+}$ ions were reduced to a half of the original amount, indicating hyperbranched nanostructures.
Fig. S4 SEM image of PbTe cubes obtained for 50 min were immersed into KOH solution for 6h.