

On-line Supporting Information

Carbon nanotube-copper exhibiting metal-like thermal conductivity and silicon-like thermal expansion for efficient cooling of electronics

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This on-line SI includes

- (a) Schematic of in-plane and out-of-plane geometry for measuring thermal conductivity, and
- (b) Comparative Raman spectra of pristine CNT and CNT-Cu composite.

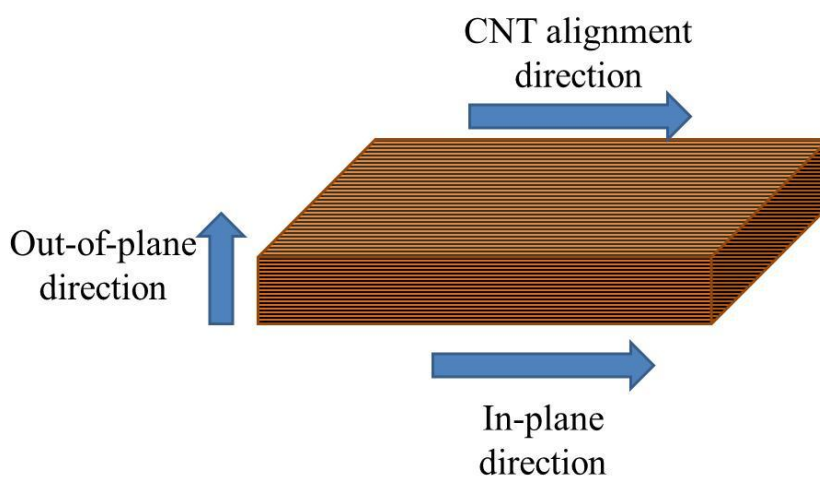


Fig. S1. Schematic representation of in-plane and out-of-plane directions of measuring thermal conductivity of CNT-Cu composite. The CNT alignment direction is also shown for reference.

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† Electronic Supplementary Information (ESI) available: Comparison of Raman spectra of pristine CNT and CNT-Cu. See DOI: 10.1039/b000000x/

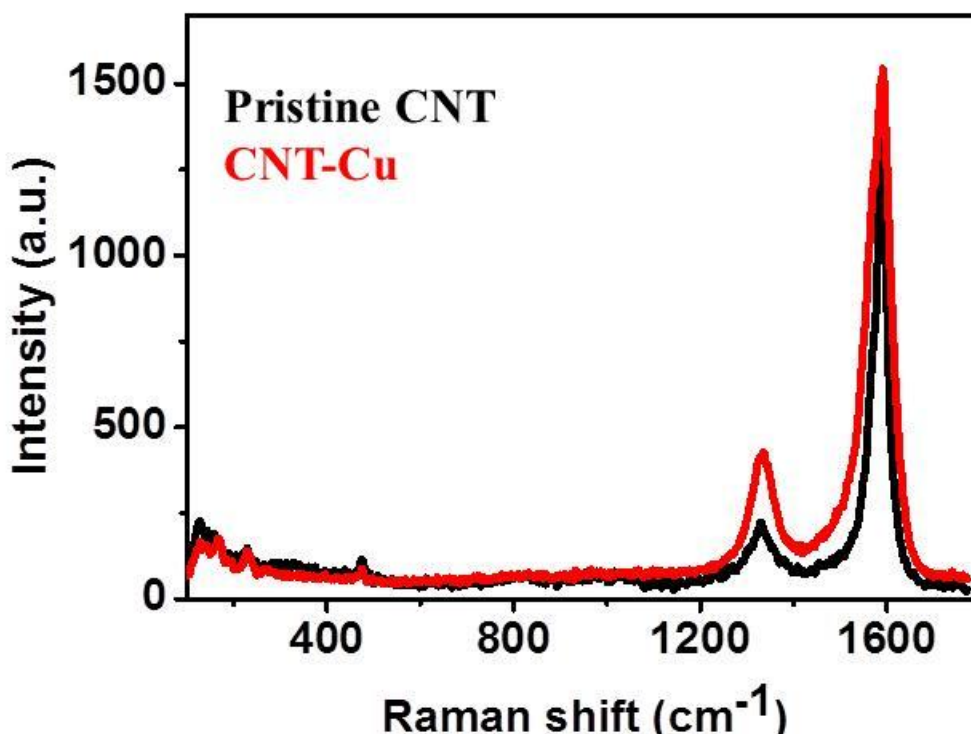


Fig. S2 Raman spectra of pristine CNT forest (black trace) and CNT-Cu composite (red trace). The G/D ratios are 6.6 and 4.2, respectively. Further, no distortion of RBM peaks are observed, indicating minimal structural damage to CNTs.

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