Rational and Wide-range Tuning of CNT Aerogel Conductors with Multifunctionalities

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Fig. S1. The bulk density of pristine aerogel.

Fig. S2. Figure of merit (ZT) of the n-type aerogel coated with different PEI concentration.
Fig. S3. Resistance and Seebeck coefficients of the CNT aerogel conductor with different PEI concentrations.

Fig. S4. Seebeck coefficient of the CNT aerogel conductor.

Fig. S5. The internal resistance of different TE modules.
**Fig. S6.** The TE output Seebeck voltages changing according to time. (The temperature difference was removed after 60 sec)

**Fig. S7** Thermogravimetry (TG) curve of pristine CNT aerogel

**Fig. S8** The amorphous carbon around the catalyst changes to graphite phase