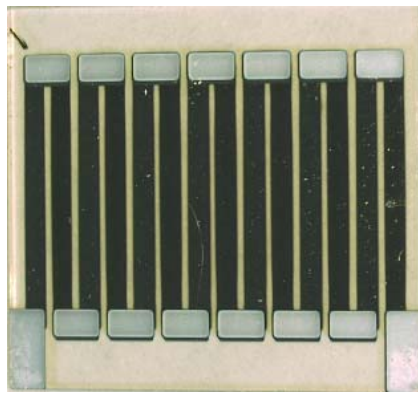(a)

(b)

Figure 1. Schematic illustration (a) and photograph (b) of the bismuth-telluride-based alloy thin film thermoelectric generator.
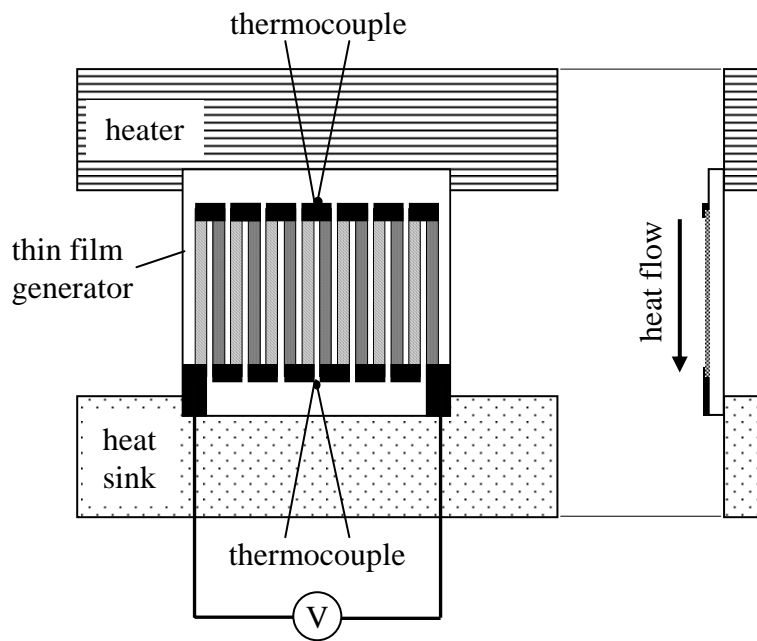
Figure 2. Schematic diagram of the measurement for the output voltage of the bismuth-telluride-based alloy thin film thermoelectric generators.
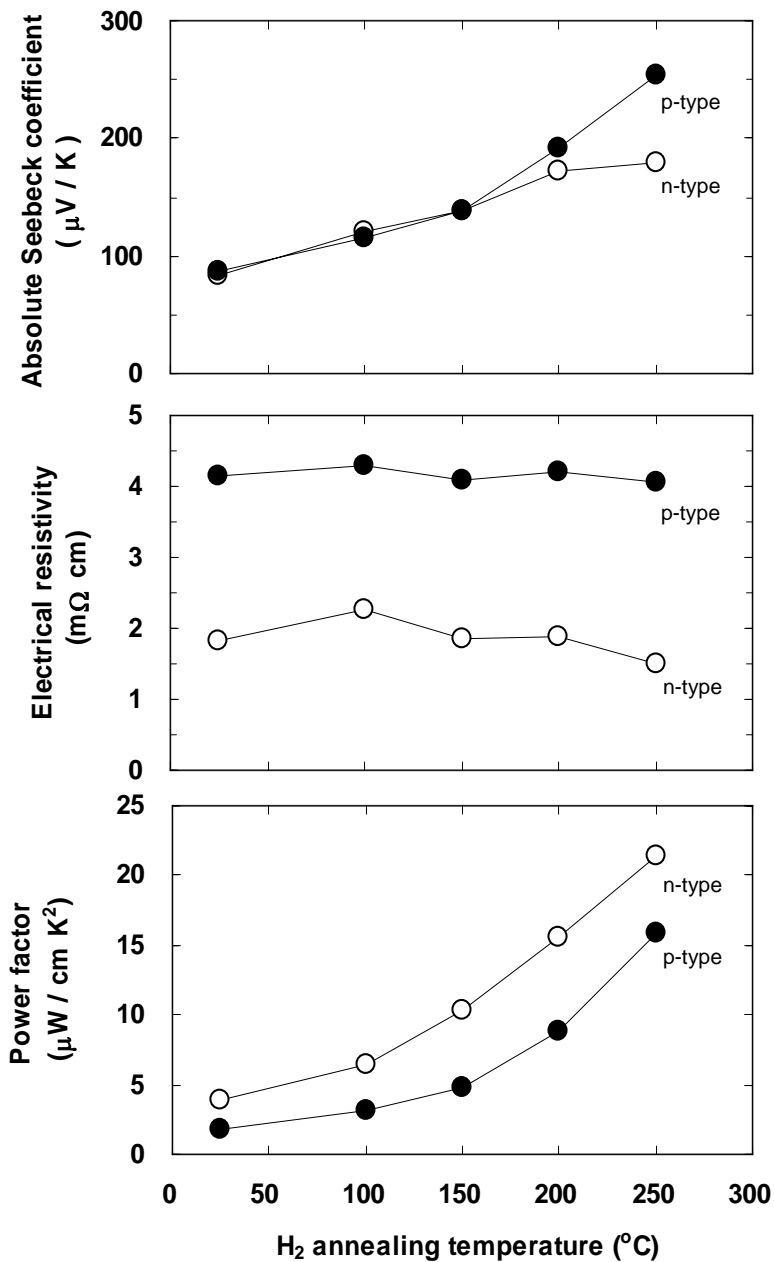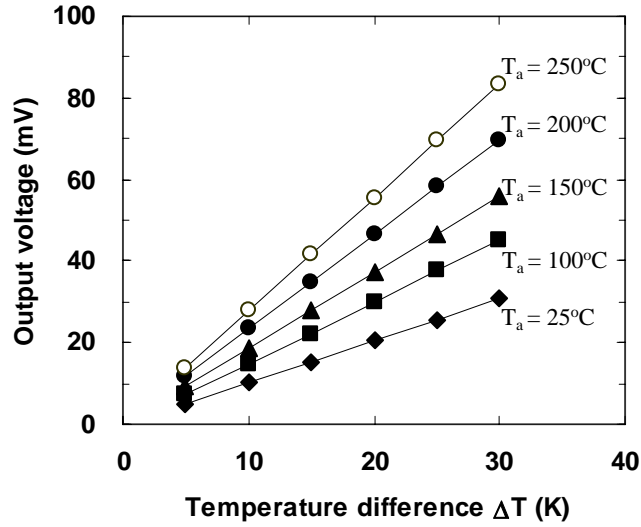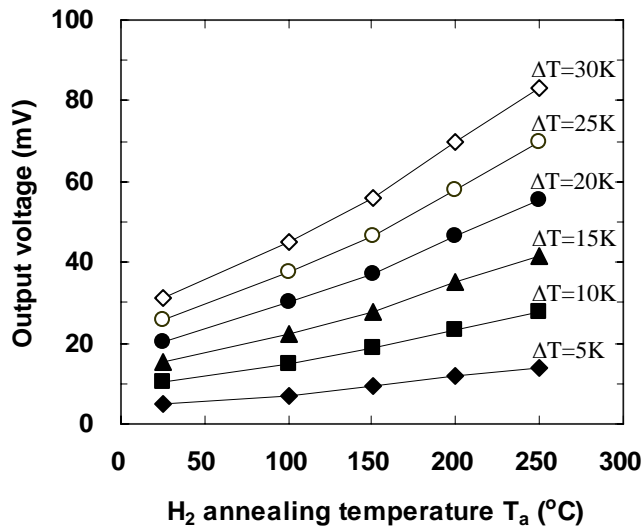
Figure 3. The transport properties of the bismuth-telluride-based alloy thin film, in terms of Seebeck coefficient, the electrical resistivity, and the thermoelectric power factor, as a function of the hydrogen annealing temperature.
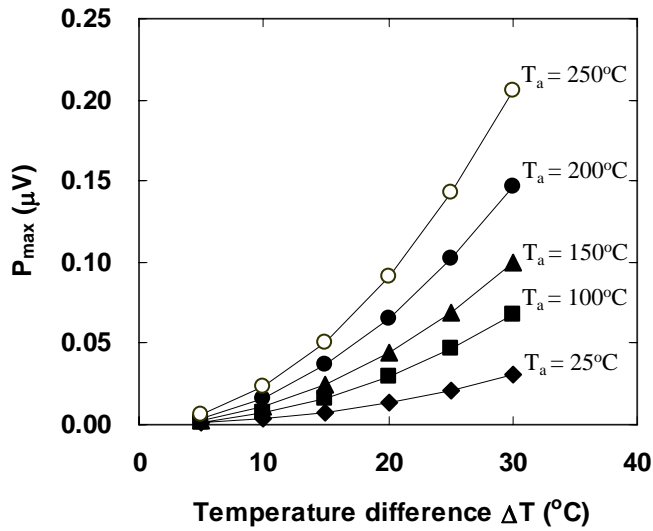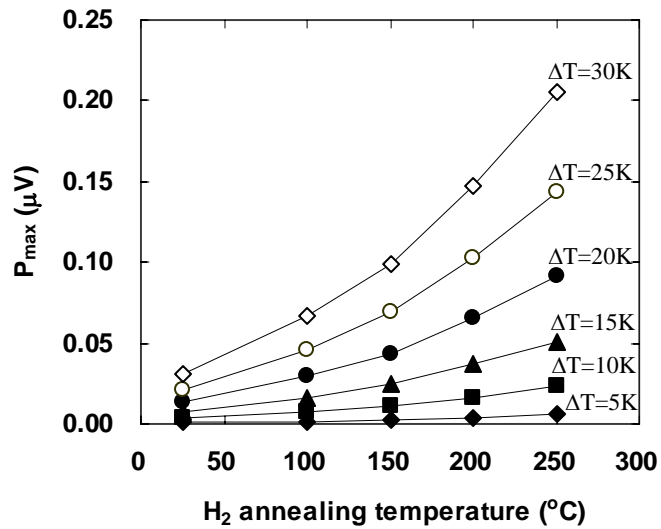
(a)

(b)

Figure 4. The generated output voltage of bismuth-telluride-based alloy
thin film thermoelectric generators measured as functions of the
temperature difference (a) and the hydrogen annealing temperatures (b).

(a)

(b)

Figure 5. The estimated maximum output power of bismuth-telluride-based alloy thin film thermoelectric generators measured as functions of the temperature difference (a) and the hydrogen annealing temperatures (b).