

APPENDIX B
FIGURE AND TABLE

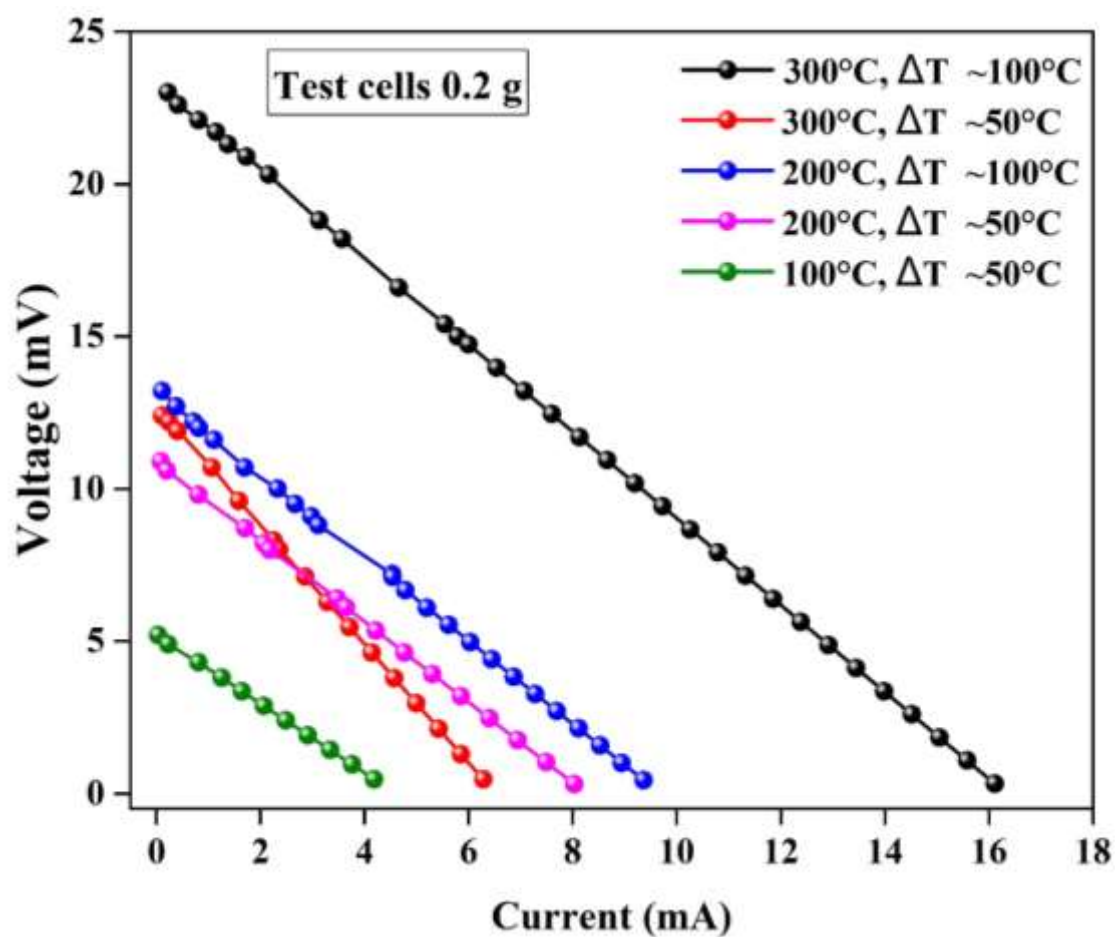


Figure 68 IV-curve of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEGs under condition of weight 0.2 g versus different operating T_h and ΔT .

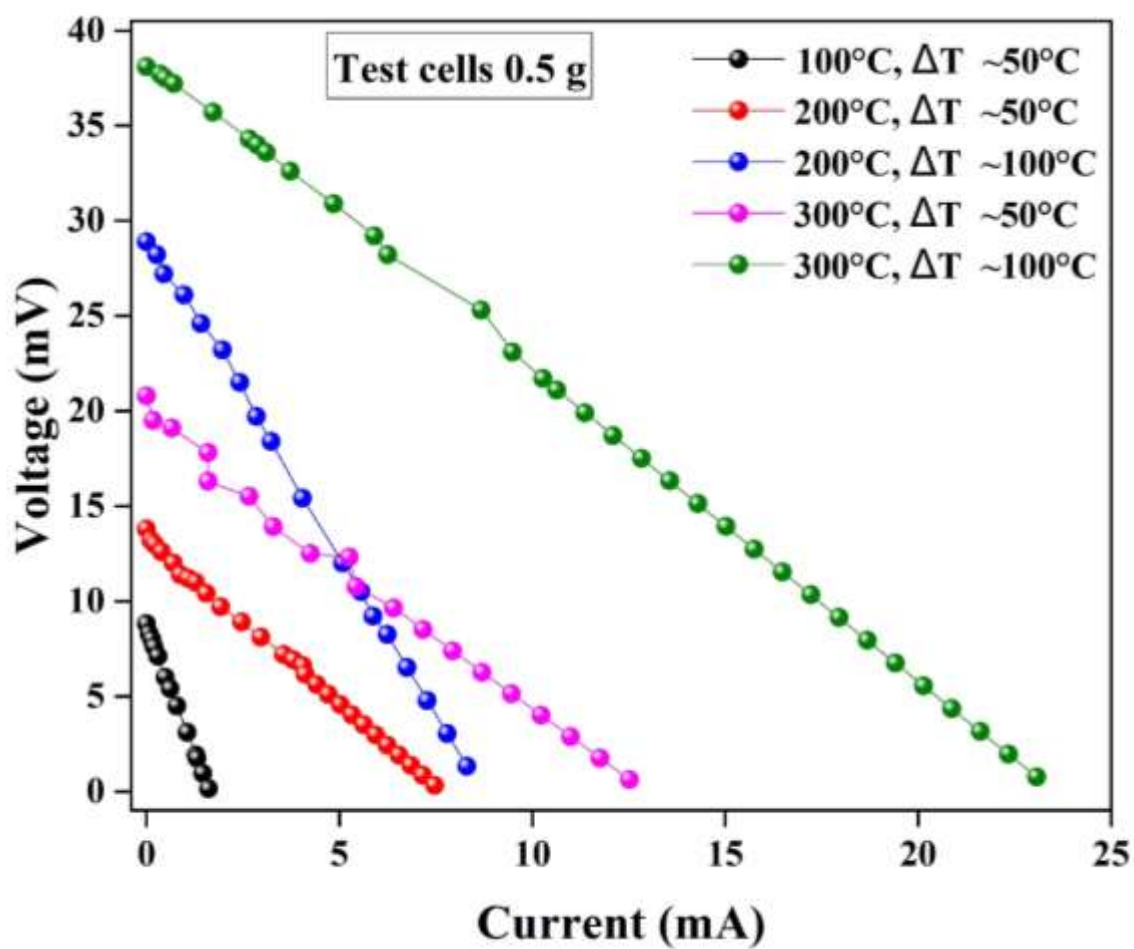


Figure 69 IV-curve of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEGs under condition of weight 0.5 g versus different operating T_h and ΔT .

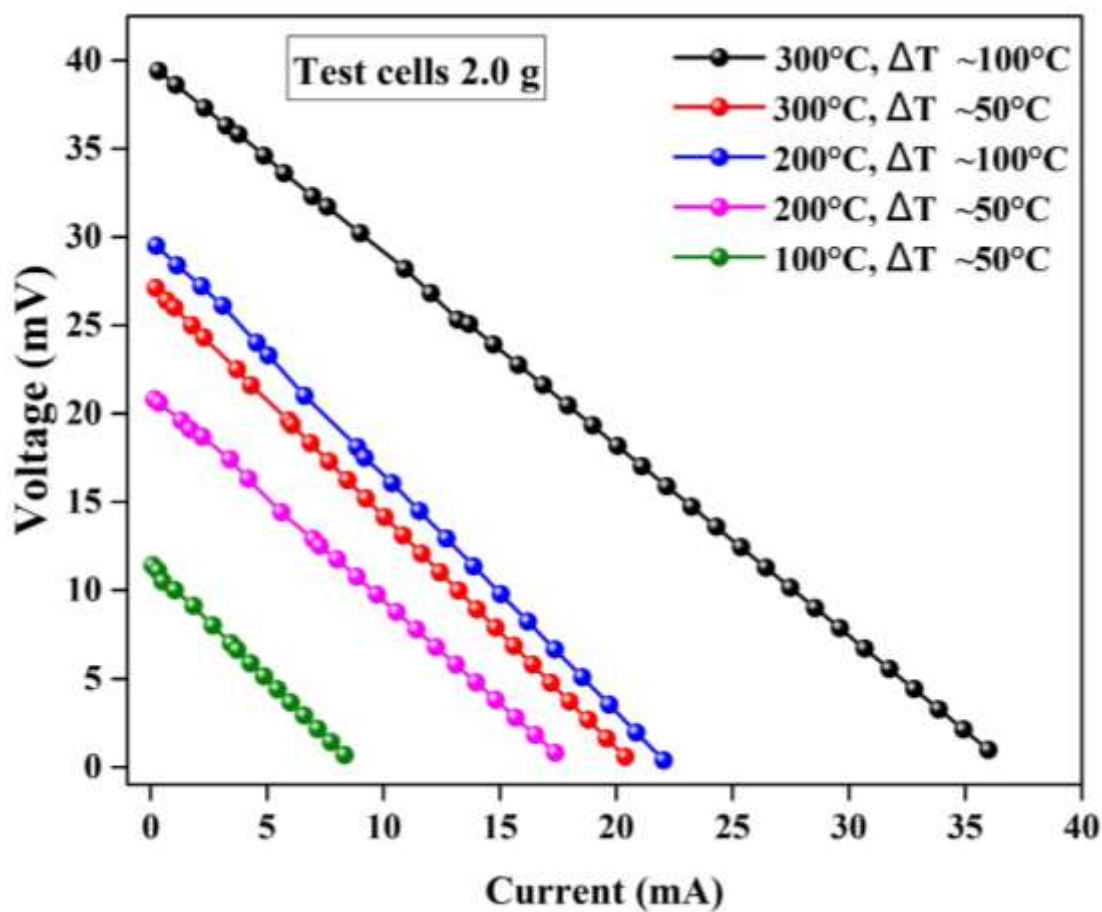


Figure 70 IV-curve of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEGs under condition of weight 2.0 g versus different operating T_h and ΔT .

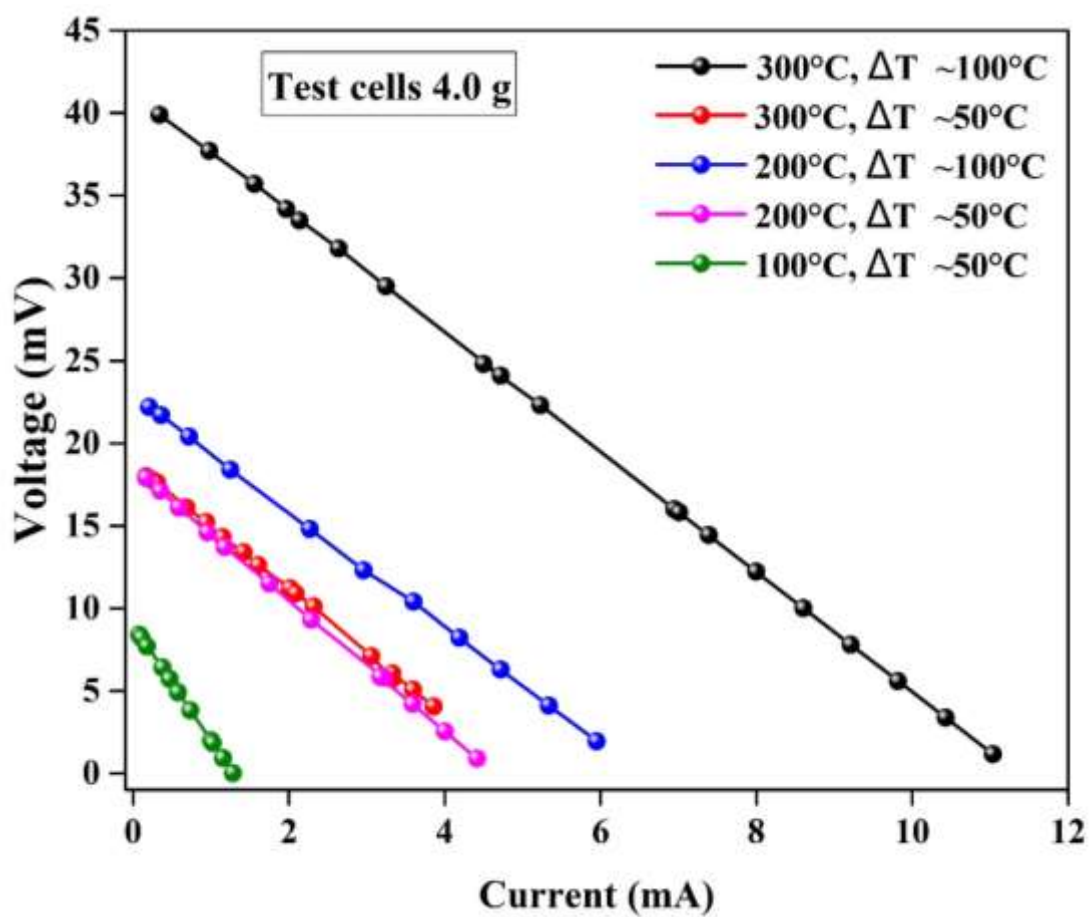


Figure 71 IV-curve of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEGs under condition of weight 4.0 g versus different operating T_h and ΔT .

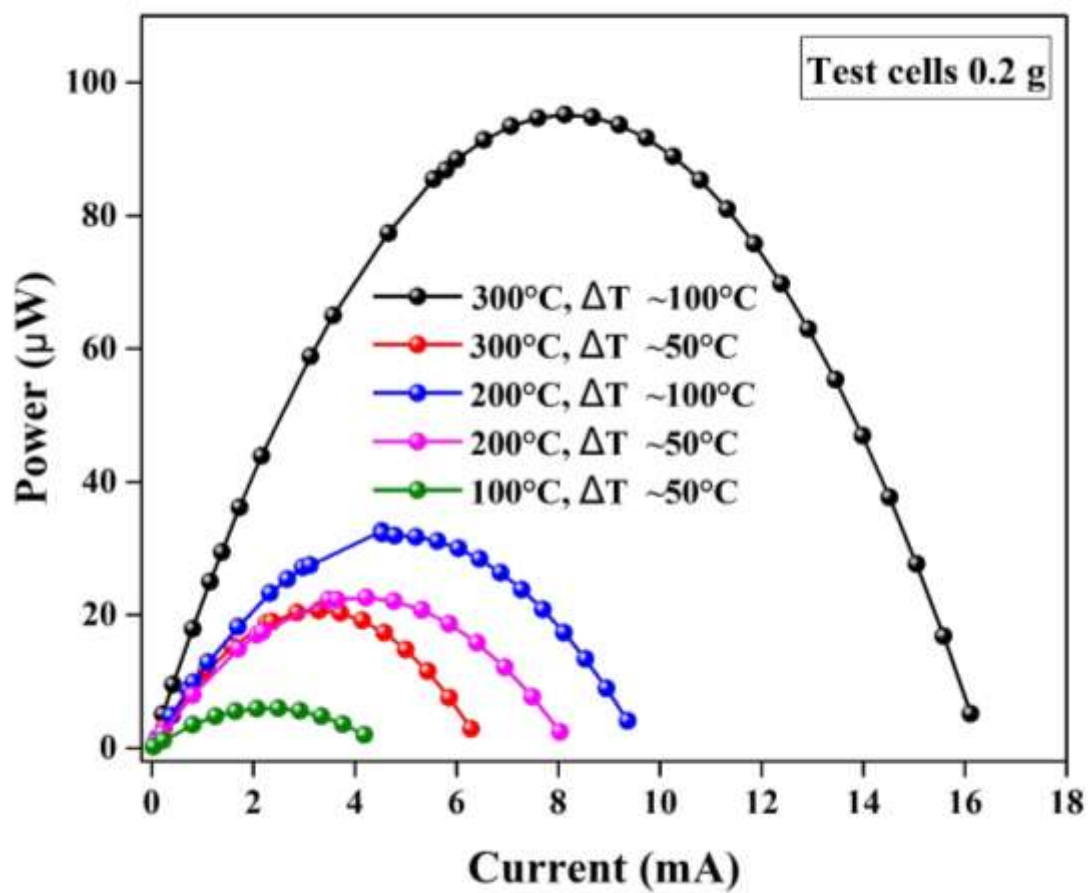


Figure 72 Electrical power output curves of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEG module under condition of weight 0.2 g versus different operating T_h and ΔT .

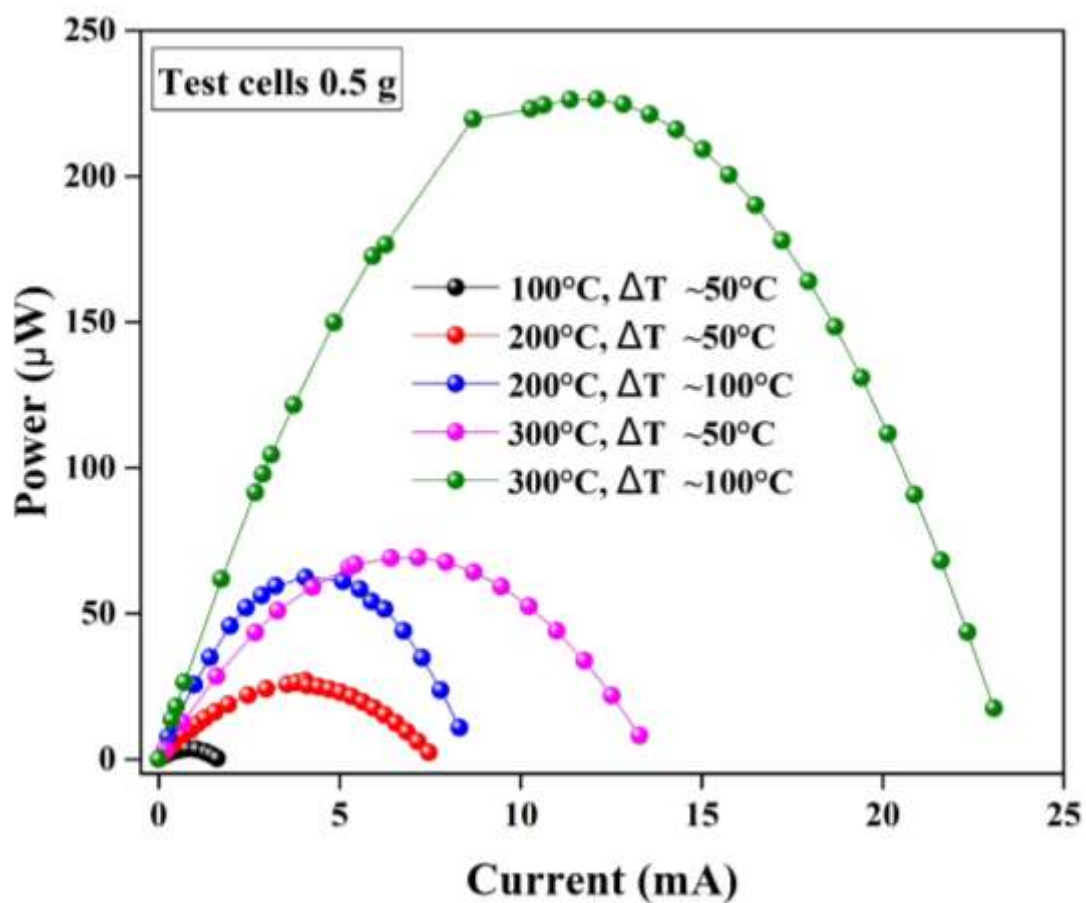


Figure 73 Electrical power output curves of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEG module under condition of weight 0.5 g versus different operating T_h and ΔT .

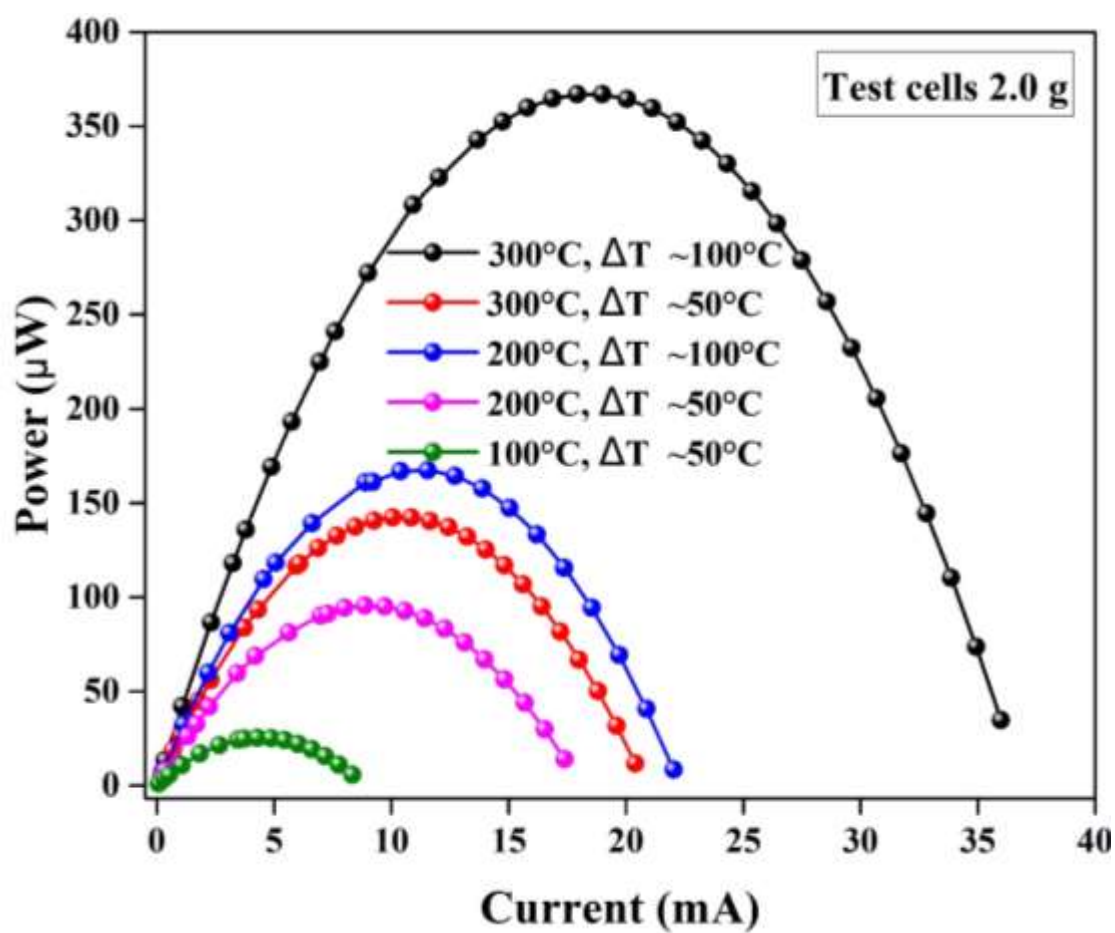


Figure 74 Electrical power output curves of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEG module under condition of weight 2.0 g versus different operating T_h and ΔT .

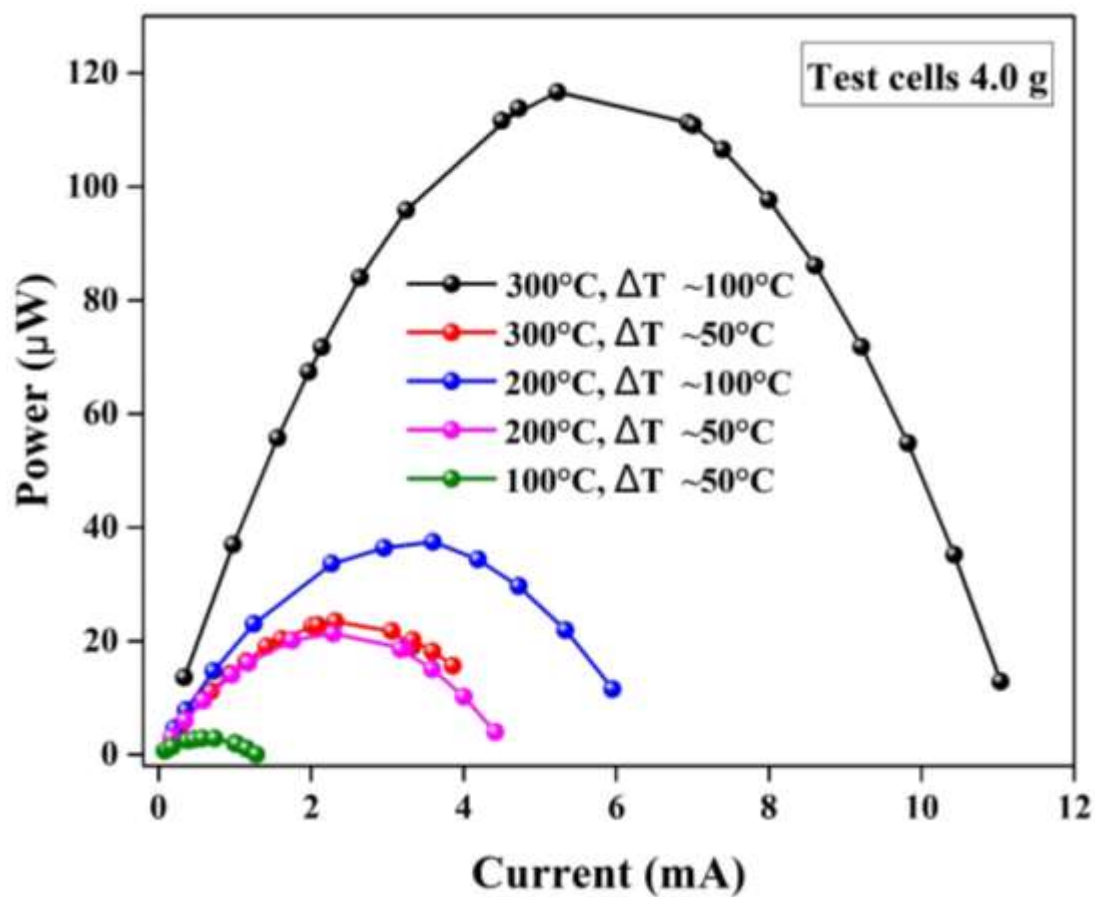


Figure 75 Electrical power output curves of the test cells of monolithic $\beta\text{-Zn}_4\text{Sb}_3/\text{ZnO}$ TEG module under condition of weight 4.0 g versus different operating T_h and ΔT .

Table 11 Comparison of maximum electrical power output of test cell of monolithic β -Zn₄Sb₃/ZnO TEG module under condition of weight 0.2 g for different conditions of T_h and ΔT .

Hot-side Temperature	Gradient temperature (ΔT)	Maximum P_{out}
100 °C	50 °C	6 μW
200 °C	50 °C	22 μW
200 °C	100 °C	31 μW
300 °C	50 °C	20 μW
300 °C	100 °C	95 μW

Table 12 Comparison of maximum electrical power output of test cell of monolithic β -Zn₄Sb₃/ZnO TEG module under condition of weight 0.5 g for different conditions of T_h and ΔT .

Hot-side Temperature	Gradient temperature (ΔT)	Maximum P_{out}
100 °C	50 °C	5 μW
200 °C	50 °C	28 μW
200 °C	100 °C	63 μW
300 °C	50 °C	69 μW
300 °C	100 °C	227 μW

Table 13 Comparison of maximum electrical power output of test cell of monolithic β -Zn₄Sb₃/ZnO TEG module under condition of weight 2.0 g for different conditions of T_h and ΔT .

Hot-side Temperature	Gradient temperature (ΔT)	Maximum P_{out}
100 °C	50 °C	25 μW
200 °C	50 °C	97 μW
200 °C	100 °C	166 μW
300 °C	50 °C	142 μW
300 °C	100 °C	366 μW

Table 14 Comparison of maximum electrical power output of test cell of monolithic β -Zn₄Sb₃/ZnO TEG module under condition of weight 4.0 g for different conditions of T_h and ΔT .

Hot-side Temperature	Gradient temperature (ΔT)	Maximum P_{out}
100 °C	50 °C	3 μW
200 °C	50 °C	21 μW
200 °C	100 °C	37 μW
300 °C	50 °C	23 μW
300 °C	100 °C	115 μW