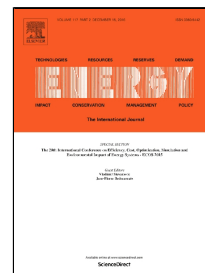


# Accepted Manuscript

A thermoelectric generator for scavenging gas-heat: from module optimization to prototype test

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## Highlights

1. Basic factors to enhance output power of TEGs are extracted.
2. Geometries of thermoelectric modules are optimized experimentally.
3. Area-specific power of a gas-heat scavenging TEG prototype is up to  $0.378\text{W}\cdot\text{cm}^{-2}$ .
4. Maximum net output power of the TEG prototype is optimized.

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