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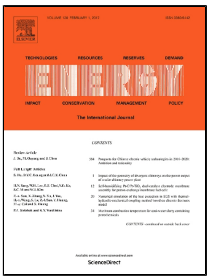

Exergy and energy analysis of photovoltaic-thermoelectric hybrid systems

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Research Highlights

►A thermodynamic model of PV-TE hybrid systems is proposed.

►The exergy analysis of PV-TE hybrid systems is conducted.

►The effects of the concentration ratios and types of PV cells on the performance of PV-TE hybrid systems are investigated.

►The exergy losses result mainly from the irreversible process of solar irradiance thermalized into heat.