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Waste Heat Recovery Using Thermoelectric Generators

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submissions:

closed (30 April 2022)

Message from the Guest Editor

The present Special Issue aims to highlight recent research done in the area of waste heat recovery and renewable energy harvesting using thermoelectric generators. Topics include but are not limited to:

- Analysis, development, manufacturing, and testing of TEG WHR in conventional/hybrid light, medium, and heavy-duty land, naval, aerospace vehicles, engines, power generation using the exhaust, cooling circuit, radiating heat; in industrial processes;
- TEG heat exchangers, exhaust heat exchangers, coolers, high-performance heat exchangers including phase change processes, micro-finned coolers, thermal management, and thermal control in WHR TEGs;
- Power electronics of WHR TEGs, TE energy harvesting for autonomous devices;
- Energy, thermo-economic, life cycle analysis of WHR TEGs, improvement of engine, vehicle, device efficiency;
- Assessment of materials, interfaces, bondings, coatings, reliability, manufacturing and assembly processes of TEG systems, modules, and components for WHR;
- Heat transfer, fluid dynamics, electrical, solid mechanics, multiphysics analysis, and optimization of TEGs and WHR systems.



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Message from the Editor-in-Chief

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