Special Issue

Current Status on the Thermal Management of Electric Vehicles

Message from the Guest Editors

Electric vehicles have become an important strategy to shoulder multiple historical missions. The purpose of this Special Issue is to attract state-of-the-art research and review articles on the thermal management technologies of electric vehicles. Topics of interest include but are not limited to the following: Transcritical CO2 technology; AC, HP, and thermal management of vehicles; Low temperature heat pump technology; Thermal management technology of passenger cars, commercial vehicles, and rail vehicles; Mixtures based on natural working fluid; HFO-based mixtures; Integrated thermal management technology (cabincomfort and battery/motor/ECU temperature management); Intelligent optimization; Control strategy; System and component modeling; NVH technology; CFD analyses for carriage air distribution etc.; Experimental investigations; Exergy-based assessments; Life cycle climate performance and life cycle assessment; Expanders, ejectors, and others; Vortex tubes; Safety issues and risk assessment for flammable refrigerants.

Guest Editors

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Deadline for manuscript submissions

closed (15 December 2022)

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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