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Phase Change Technology for Energy and Thermal Management

Guest Editor:

Prof. Dr. Wenye Lin

Guangzhou Institute of Energy
Research, Chinese Academy of
Sciences, Guangzhou 510640,
China

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Message from the Guest Editor

Rapid population growth, as well as the fast urbanisation and industrialisation seen over the last decades, have led to a drastic increase in world energy consumption. This has further resulted in the issues of and aroused public concerns surrounding energy security, environmental deterioration and global warming. To address these energy and environmental issues, a variety of sustainable and environmentally friendly technologies have been developed and applied. Among these technologies, thermal energy storage (TES) using phase-change materials (PCMs) has been attracting increasing attention. PCMs are substances that can absorb, store and release a large amount of thermal energy within a narrow temperature range through phase transitions. They therefore have been widely recognised as a promising solution to rationalise energy and thermal management, thereby deepening renewable energy penetration and enhancing energy efficiency. This Special Issue aims to gather original research and review articles regarding the development, optimisation and application of PCMs and PCM TES technologies for energy and thermal management in different sectors.



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Special Issue



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Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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