



## Novel Nanomaterials for Thermochemical Storage: Development and Characterization

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (20 December 2018)**

### Message from the Guest Editor

Dear Colleagues.

Scope of this Special Issue is to present the latest advances in the development of ThermoChemical heat storage Materials (TCM), which represent a key factor for boosting the use of renewable energy in heating and cooling systems effectively, as they decouple the availability of renewable energy from the time when it is needed. Moreover, the use of TCM contributes to improving the energy efficiency of global energy systems by storing waste heat.

The key parameters of TCM are energy density (depends on the storage process), power (how fast the energy stored in the system can be discharged and charged), efficiency (losses over time and with charge/discharge), and cost. Environment-friendliness is also important to consider.

The development of thermochemical materials and technologies is still at an early stage. The study of novel TCM should result in a better understanding of its structure, composition, and performance characteristics. Knowledge of how to synthesize, characterize, and compare materials and their performances must be gained.

Prof. Dr. Candida Milone  
*Guest Editor*





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## Message from the Editor-in-Chief

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