



## **Design Constraints, Solutions and Optimization in Phase Change Materials Thermal Management Systems for Space Technology and Applications**

Guest Editor:

**Dr. Bogdan Diaconu**

University Constantin Brancusi,  
Calea Eroilor 30, Târgu Jiu  
210135, Romania.

diaconu@utgjiu.ro

Deadline for manuscript  
submissions:

**15 September 2021**

### **Message from the Guest Editor**

Dear colleagues,

The Special Issue aims to gather research data and applications of PCMs in space technology, especially in thermal regulation of Earth orbital spacecrafts, where thermal stresses on spacecraft components are particularly significant.

Submissions are particularly encouraged in but not limited to the following topics:

Heat storage materials for space applications;

Passive heat transport systems employing PCMs in spacecrafts;

Enhancement of thermal conductivity for PCMs for space applications;

PCMs integration with pumped fluid loops;

Increasing the heat transport capacity of passive thermal transfer systems;

Integration of PCMs in two-phase heat transport systems (liquid–vapor);

Thermal coupling between external surfaces and internal heat flow paths.

