

Press Release

Thermoelectrics – A Forward-Looking Market

Thermal conductivity and diffusivity are the most important thermophysical material parameters for describing the heat transport properties of a material or component part. The LFA 457 *MicroFlash*® by NETZSCH is the most modern and versatile Laser Flash System available and is used in the research, development and characterization of not only all types of general materials, but also of state-of-the-art high-performance materials in fields such as automotive construction, air and space travel, and energy technology.

Measuring thermophysical properties such as thermal diffusivity and conductivity is essential in optimizing thermoelectric material performance. Enhancing these properties can increase the “figure of merit” and thereby improve material efficiency.

The supplemental application of thermogravimetry and differential scanning calorimetry also allows for characterization of the thermal stability of a thermoelectric material. The introduction of the STA 449 **F1** *Jupiter*® by NETZSCH is setting new standards in this area as well. Great configuration flexibility and unmatched performance provide the basis for practically unlimited application possibilities; even complete thermoelectric modules can be analyzed with this system.

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