

SUBMIT AN ABSTRACT BY JULY 1 FOR THE FOLLOWING TMS2023 SYMPOSIUM:

ENERGY & ENVIRONMENT

Composite Materials for Sustainable and Eco-Friendly Material Development and Application

Efforts to achieve more environmentally friendly materials and manufacturing processes is an increasingly important topic. Natural sourcing or recycling of raw materials along with improvement of component life cycle enhancement to reduce waste are often targeted in all engineering sectors. This symposium focuses on innovations in the field of composite materials with a specific focus on eco-friendly and environmentally sustainable systems.

Work focused on these activities in all composite fields is invited, including polymer, metal, and ceramic matrix composites. Emphasis on sourcing raw materials in a sustainable way as well as development of composite materials for environmental sustainability are encouraged. Papers looking at both the development of new materials for structural applications, reduction in energy consumption, and increased component life along with discussions of novel methods to reuse existing materials are encouraged. Additionally, papers focusing on the characterization of such materials are also invited. All submissions should focus on the merging of composite materials and environmental impacts.

Specific topics of interest include:

- Naturally sourced materials feedstock
- Recycled material feedstock
- Application of composite for reduced carbon footprint
- Development of novel materials to repurpose waste from other areas

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