MATERIALS SYNTHESIS AND PROCESSING

Composite Materials: Sustainable and Eco-Friendly Material Development and Applications

Efforts to achieve more environmentally friendly materials and manufacturing processes are an increasingly important topic. Natural sourcing and 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 are 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 on 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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