

Special Issue

Metal-Polymer Multi-Material Structures and Manufacturing Techniques in Transportation

Message from the Guest Editor

This Special Issue intends to review the state-of-the-art in joining and additive manufacturing of metal-polymer multi-material structures. Short communications, critical literature reviews, and technical papers addressing the correlations between microstructure, process, properties and mechanical performance are intended. The submission of manuscripts reporting on new joining and additive manufacturing processes as well as case-studies of real parts or applications in transportation are especially welcome. Examples of metal-composite multi-materials may include aluminium, titanium, magnesium, high and ultra-high strength steels combined with thermoset, thermoplastics and their composites. Manuscripts dealing with the fundamental understanding of the processing steps and material-related changes will be considered for publication. New thermal joining techniques using, but not limited to, friction-, laser-, induction- and ultrasonic-based energy, as well as new 3D printing, wire-based and powder-based additive manufacturing techniques for direct assembly of metal-polymer multi-materials, will receive special attention in the reviewing process.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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