Special Issue

Metallic/Polymeric/Composite Materials and Their Friction Stir Welded and Bonded Joints

Message from the Guest Editor

the Special Issue, “Metallic/Polymeric/Composite Materials and Their Friction Stir Welded and Bonded Joints”, will address advances in application of these technologies to the manufacturing of single- and multi-material joints, covering experimental characterization, theoretical and numerical modelling as well as non-destructive assessment. The development and application of highly performing metallic materials grades, polymers and composites and high-yield joining technologies such as Friction Stir Welding (FSW) and Adhesive Bonding (AB), allow for an easier manufacturing of multi-material, optimized structures. Original papers and reviews are therefore solicited on all types of metallic, polymeric and composite materials friction stir welded and bonded joints experimental characterization, theoretical and numerical modelling as well as non-destructive assessment. The interest of the special issue extends also to all friction stir-based joining processes and to the combined use of FSW and AB. Articles and reviews encompassing automotive, aerospace, shipbuilding and any other possible industrial application fields of these techniques are very welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2023)

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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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