Special Issue

Advances in Joining Technologies for Dissimilar Metallic Materials

Message from the Guest Editor

Among the many manufacturing technologies, joining dissimilar metals is a key technology that enables innovative and sustainable production. Skillfully combining different materials enables the creation of a product that meets functional requirements and fully exploits its various properties. The main goal of our Special Issue is to gather the latest advances in joining technologies for dissimilar materials, with a particular focus on key technologies and innovations. This encompasses a broad range of joining technologies for structural components, including solid-state joining processes, additive manufacturing, nanotechnologies, interlayers, and hybrid joining methods. The Special Issue may also feature detailed analysis of joint zones, including advanced research aimed at understanding the processes occurring during material joining and improving the mechanical properties and durability of joints. The Special Issue will cover a wide range of topics related to the preparation and analysis of dissimilar materials, as well as theoretical, experimental, and numerical studies.

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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