Topical Collection

Welding and Joining Processes of Materials

Message from the Collection Editor

Welding and joining processes of materials are key technologies applied to the manufacture of most industrial products such as buildings, bridges, ships, automobiles, aircrafts, pressure vessels, pipelines, electronic equipment, and so on. The scope of this Special Issue focuses on recent advances in the field of welding and joining processes of materials. The topics of interest include but are not limited to the following:

- Developments of advanced welding and joining processes;
- Modelling and simulation of welding and joining processes;
- Heat source properties;
- Heat source–material interaction mechanism;
- Fluid mechanics and heat transfer in weld pools.

We would like to invite you to submit original research articles and reviews related to any topics mentioned above.

Collection 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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