Special Issue

Advanced Welding Technology and Its Applications

Message from the Guest Editor

This Special Issue highlights the latest advances in various welding processes across the field, including solid-state welding, electron beam welding, laser welding, magnetic arc welding, the ultrasonic welding process, thermal spraying, and experimental processes. The Special Issue will include current problems related to joining materials using advanced techniques, as well as innovative solutions in direct industrial applications. The main topics covered by the Issue include:

- Technologies for welding dissimilar and difficult-to-weld materials;
- The latest research on solid-state welding processes (e.g., friction stir welding);
- Structure and mechanical properties of welded joints;
- Characterization of innovative materials to produce welding joints;
- Process optimization in experimental and simulation terms;
- Finite-element analysis of thermo-mechanical processes.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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