Special Issue

Technological Innovation and Application of Metal Welding and Joining

Message from the Guest Editors

The rapid development of metal welding and joining is often driven by the materials, structures, equipment and engineering requirements, etc. The technological innovation and application of metal welding and joining promote the progress of welding community. In order to advance scientific research and engineering applications in this field, continuous efforts are made to develop new techniques and improve existing methods, ensuring higher efficiency and reliability. These advancements not only enhance the quality of welded structures but also expand the scope of applications across various industries. For instance, laser welding offers precision and speed, while additive manufacturing revolutionizes component design. Computational mechanics aids in simulating complex scenarios, optimizing mechanical properties. This issue aims to bring together cutting-edge research and practical insights, fostering collaboration among experts.

Guest Editors

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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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