

Special Issue

Welding, Joining, and Additive Manufacturing of Metals and Alloys (Third Edition)

Message from the Guest Editors

The constant development of new materials and products also promotes the research and development of welding, joining, and build-up welding technologies, as well as additive manufacturing technologies. These investigations are multidisciplinary and encompass processes and their automation, monitoring and control, materials, weldability and joinability of materials and alloys, product and joint design, and advanced characterization and numerical simulations to comprehensively understand physical and metallurgical phenomena. A successful understanding of these phenomena enables the development of solutions to overcome these problems. This Special Issue aims to report the results of basic and applied research, as well as case studies, in the fields of weldability and joinability of materials, additive manufacturing, automation, process improvement, and advanced characterization.

Guest Editors

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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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