

## Special Issue

# Recent Advances and Perspectives in Welding and Joining Process and Technology

### Message from the Guest Editor

Welding is a fabrication process widely used for applications in the chemical, petrochemical, automotive, aerospace, shipbuilding, construction and infrastructure, microelectronics, oil and gas transport, nuclear, military and defence industry.

Researchers worldwide are invited to contribute to this Special Issue, which aims to facilitate the global exchange of advanced knowledge in the innovative process and technology of welding, joining and additive manufacturing. Additionally, it is expected to widely share the recent advances and perspectives related to the behaviour of materials subjected to joining and welding, the weldability and metallurgical compatibility of materials, welding of similar and dissimilar materials, characterisation of welded joints, properties of used materials that are processed by additive manufacturing, and advanced industrial applications. Experimental studies covering the intercorrelation of process parameters, weld geometry, microstructure, and properties, such as strength, toughness, hardness, weldability, and corrosion resistance, based on data analysis, data processing and monitoring, are highly encouraged and welcomed.

### Guest Editor

Prof. Dr. Elena Scutelnicu

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### Deadline for manuscript submissions

closed (20 December 2023)



## Materials

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## About the Journal

### 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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