

## Special Issue

# Dissimilar Materials Brazing and Diffusion Bonding

### Message from the Guest Editor

Compared with fusion welding, brazing and diffusion bonding have the evident advantages of promoting the structural adaptability, welding deformation and dimensional accuracy of welds. Therefore, dissimilar materials brazing and diffusion bonding have been extensively employed in aerospace, automobile manufacturing, nuclear power facilities and other fields. During the brazing and diffusion bonding process, the microstructure evolution behavior of the bonding interface and bonding layer is directly related to the performance of the joints, and has received extensive attention. The aim of this Special Issue is to introduce the latest advances in dissimilar materials brazing and diffusion bonding, including bonding materials design, parameter control, microstructure and property characterization, failure behavior analysis, and non-destructive testing and evaluation. Experimental and numerical modelling/simulation studies on all relevant aspects of this multidisciplinary subject are welcome. We look forward to your contributions to this Special Issue.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 March 2024)



## Materials

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### Message from the Editorial Board

*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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