

Special Issue

Advances in Solid-State Welding Processes

Message from the Guest Editors

Solid-state welding is a relatively new welding technology. Compared with traditional fusion welding, it can avoid many of the defects associated with fusion welding, such as pores and solidification cracks. Furthermore, solid-state welding produces joints with high performance. Research on solid-state welding is of great significance for improving welding quality, reducing production costs, and improving environmental pollution. At present, solid-state welding technology has made certain progress, including rotary friction welding, friction stir welding, linear friction welding, diffusion bonding, resistance welding, and other methods. These methods have achieved certain results in practical applications, but there are still some difficulties that need to be solved in other aspects. In summary, the research on solid-state welding technology is of great significance. It is my great pleasure to invite everyone to submit a manuscript for this Special Issue. Full papers, communications, or reviews on solid-state welding are [welcome](#).

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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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