Special Issue

Impact Welding Technology of Metal Alloys

Message from the Guest Editor

Impact welding or collision welding is a solid-state welding method that has recently been gaining traction in industry as well as in the research realm. The ability to weld widely disparate materials while maintaining their parent material properties sets impact welding apart from fusion-based welding. Traditionally performed with explosives, this method also has other variants that are driven by electromagnetic pulse, pulsed laser ablation and vaporizing foil actuators, among others, which make the technology more accessible for application and research. This Special Issue welcomes research papers and reports on all aspects of impact welding, including—but not limited to—process innovation, testing, diagnostics, microstructure, simulation and industrial application.

Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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