

Special Issue

Hot Stamping Processing of Steel and Alloys

Message from the Guest Editor

Hot stamping technology can improve the formability of materials and obtain parts with high strength and good shape accuracy. Driven by the improved need for automobile body lightweight, hot stamping technology has seen significant new developments in recent years. This Special Issue focuses on the application of new materials, including steel and alloy materials, new die technologies, and new forming and simulation technologies in the field of hot stamping; the application of hot stamping technology in light alloys, such as aluminum alloys, magnesium alloys, and titanium alloys; the application of 2GPa high-strength steel and methods to avoid hydrogen-induced delayed fracture of high-strength steel; new coating development technology; studies on friction and wear behavior in hot stamping processes; and application of new heat treatment technology in the hot stamping field. In addition to the processing of traditional body safety parts, such as anti-collision beam, B-pillar, and so on, we expect hot stamping technology to be used in the processing of new types of parts, such as new energy vehicle battery cases, and so on.

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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