Special Issue

Advanced Manufacturing and Joining Technologies of Aluminum and Steel Sheets

Message from the Guest Editor

This Special Issue aims at collecting contributions about advanced manufacturing and joining technologies used to fabricate aluminum and steel sheet parts in industry (e.g., automotive, aerospace, energy industry) through high-quality manuscripts able to point out the scientific and technical advances in these fields. Contributions can include but are not limited to: - Advanced manufacturing processes; - Friction stir welding, friction stir spot welding, laser welding, hybrid welding, explosive welding, ultrasonic welding, mechanical riveting and clinching and other innovative joining technologies; - Gas forming, hydroforming, incremental forming, laser forming and other innovative forming techniques; - Optimization of traditional manufacturing and joining processes; - Monitoring and control of advanced manufacturing and joining processes; - Numerical simulation of manufacturing and joining processes; - Development of innovative tools and equipment; - Mechanical and microstructural characterization of parts and joints; - Heat and surface treatments of aluminum and steel sheets.

Guest Editor

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Deadline for manuscript submissions

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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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