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Advances in Materials Joining and Additive Manufacturing

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Deadline for manuscript submissions:
closed (20 March 2024)

Message from the Guest Editors

Dear Colleagues,

With the increasingly energy problem, modern manufacturing industry pays increasing amounts of attention to energy conservation and emission reduction. As widely used manufacturing processes, material joining and additive manufacturing could play an important role. Therefore, continually developing new material joining and additive manufacturing techniques to improve the manufacturing efficiency and quality is an eternal pursuit for researchers. Recently, many advances have been made by our colleagues. Summarizing these new techniques and new mechanisms is very necessary to further promote energy conservation and emission reduction in the manufacturing industry.

The main purpose of this Special Issue on “Advances in Materials Joining and Additive Manufacturing” is to collect the advances in material joining and additive manufacturing aspects. The main content of this Special Issue includes, but is not limited to, arc welding, high energy beam welding, brazing, friction welding, friction stir welding, wire arc additive manufacturing, friction stir additive manufacturing and their modelling techniques.

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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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