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Advances of Welding Materials

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Message from the Guest Editor

The welding and joining technologies of materials remain the key technology used in the contemporary manufacture of industrial products for use in the engineering of automobiles, aircraft, ships, pressure vessels, pipelines, construction, bridges, and electronic equipment, and so on. In industry, various welding and joining processes such as arc welding, high energy beam welding, and friction stir welding have been developed. According to the structural requirements determined by the material characteristics, welding joint performance, and other factors, the most appropriate welding process is selected for manufacturing. In order to improve the efficiency and quality of welding processes, research is actively being carried out across the world to clarify the mechanisms of welding processes scientifically, and to develop more advanced welding processes. However, further work is needed in this field.

The Special Issue aims to present state-of-the-art scientific developments in welding technology, which include welding materials, welding metallurgy, material weldability, and the evaluation of welding joints.



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Special Issue



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Message from the Editor-in-Chief

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