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Material Properties—Superalloys, Ferrous and Lightweight Alloys and Metal Matrix Composites

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Message from the Guest Editor

Modern industries are heavily relying on new materials development for various demanding applications, ranging from marine propulsion systems to automotive internal combustion engines to jet turbine engines. The never-ending demand for higher operational efficiency leads to the continuous development of novel materials with improved properties. A variety of superalloys, ferrous, and lightweight alloys, as well as metal matrix composites, have been recently introduced to the marketplace with significantly improved properties. The problems associated with production cost and recyclability of these novel materials have been addressed with many new solutions offered.

This Special Issue of the journal offers a selection of papers that target new material development, characterization of material properties, fitness-for-service testing, implementation and production, and recyclability.

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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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