

Special Issue

Advanced Science and Technology of High Entropy Materials

Message from the Guest Editors

This Special Issue is focused on recent developments in the field, as well as the most recent advances in high-entropy alloys—their synthesis, characterization, structures, properties and applications. High-entropy alloys have revolutionized the design of traditional alloys and offer a new paradigm for designing metallic alloys with salient properties. Recently, high-entropy alloys have increasingly become the focus of researchers due to their excellent properties, such as their high strength, ductility and corrosion and creep resistance. The main determinants of the future success of high-entropy alloys are further improvements of existing and the development of novel high-entropy alloys. The properties of high-entropy alloys are mainly based on their structure, from the atomic to the microstructure scale. This Special Issue aims to provide a comprehensive overview of recent advances in high-entropy alloys, including their synthesis, characterization and applications. We hope that this Special Issue will stimulate further research in the field of high-entropy alloys and promote their practical application.

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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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