Special Issue

Composition, Structure, Properties Relations in Compositionally Complex and High-Entropy Alloys

Message from the Guest Editor

The metallurgy of high-entropy and compositionally complex alloys is a rapidly growing field. The high-entropy approach has been adopted not only in alloy development, but also in other fields of solid-state materials research.

This Special Issue welcomes original research papers and reviews on all aspects of high-entropy and compositionally complex alloys, with a special focus on their real structure and phase transformations under temperature, pressure, and mechanical impacts, as well as the construction and modelling of multicomponent phase diagrams to access new insights into the composition–structure–properties relations in multicomponent compositionally complex alloys. Submissions are especially welcomed which might open a door to novel routes for high-entropy alloy preparation, including high-throughput and operando approaches, as well as those that might reveal new frontiers in their applications.

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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