# Special Issue

# Structural, Mechanical and/or Magnetic Properties of Metallic Materials

## Message from the Guest Editor

This Special Issue features research and review articles on the production of metallic alloys and composites, focusing on studies that analyze their structures and microstructures, as well as their thermal, mechanical, and/or magnetic response characterization (including simulation articles). Articles analyzing the influence of processing techniques (including additive manufacturing) and processing conditions on their structure are welcome. Functional properties are highly dependent on the microstructure and its thermal stability. Apart from the traditional mechanical materials, based on Fe, Co, or Ni, or light alloys, new families of materials, such as high-entropy alloys, have recently been added. With respect to mechanical properties, it is normally hardness, elasticity, and resistance that need to be optimized. Regarding the magnetic properties, their optimization depends largely on their specific applications.

## Guest Editor

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## Deadline for manuscript submissions

20 November 2025

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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.

### Editor-in-Chief

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