Special Issue

Phase and Structure Analysis of Alloys and Metal Matrix Composites—2nd Edition

Message from the Guest Editors

New metal matrix alloys and composites are materials that can have unique physical, chemical, and mechanical properties. This allows them to be used in numerous and advanced applications. These materials are in the mainstream of global research; therefore, in order to better understand the mechanisms occurring in such materials, and thus model and design them more effectively, it is necessary to fully understand and describe their structure and relate it to the specific properties of these materials. Therefore, the submitted works may concern both innovative engineering materials, alloys, and composites with modified structures and physico-chemical properties, as well as original technological modifications used in the manufacturing methodology. Papers can also focus on developing new technological solutions and mathematical models to formulate new conclusions. This Special Issue will provide a detailed review of recent research and developments in the phase and structural analysis of novel alloys and metal matrix composites. Full articles, announcements, and reviews related to structural characterization are welcome.

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Deadline for manuscript submissions

20 November 2025

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/201402

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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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