

## Special Issue

# Research on Enhancing Properties of Aluminum-Based Materials

### Message from the Guest Editors

The aluminum matrix composites (AMCs) have raised an enormous concern during the past several decades due to the corresponding high specific strength, high specific modulus, excellent dimensional stability, good wear resistance, etc. AMCs have broad application prospects in aerospace, electronic packaging, automobile, armor protection and other fields. How to improve the mechanical and functional properties of aluminum matrix composites through material design, microstructure control, and high-quality preparation is a crucial issue. For this reason, the present Special Issue “Research on Enhancing Properties of Aluminum-Based Materials” is proposed. This Special Issue aims to collect excellent studies on aluminum matrix composites from around the world, including but not limited to the preparation process, heat treatment, microstructure control and design, mechanical performance, microstructure characterization, electrical conductivity, thermal conductivity, ballistic performance, precipitate phase, interfaces, TEM, SEM, XRD and EBSD.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 September 2024)



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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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