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Advanced Structural-Functional-Integrated Light Alloys

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Message from the Guest Editors

With the rapid development of 5G communication technology and the new energy automobile industry, the broad applications of light and high-performance alloys, e.g., Al, Mg and Ti alloys, have attracted increasing attention. The existing traditional light alloys cannot meet the requirements of both structure and heat dissipation. Structural-functional-integrated light alloys provide both structural and functional properties. Mg and its alloys are attractive for application in the transportation field, Al and its alloys have been widely applied as conduction materials. Both, Mg and Ti alloys are also promising for biomedical applications.

This Special Issue is to provide a platform for the in-depth discussion of the mechanisms and strategies for the development of structural-functional-integrated light alloys. Any research, including but not limited to theoretical and calculation investigation; unique material design for the structural-functional-property-integration; advanced processing methods for the synergistic improvement of an alloys structural and functional properties, and in-depth characterization of an alloys functional properties are welcome.



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Special Issue



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Message from the Editor-in-Chief

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