

Special Issue

Advances in Metallic Materials for Projectile Manufacturing

Message from the Guest Editors

Various materials can be used for projectiles, including metallic and nonmetallic materials. Typical metallic projectiles include a high-strength case-penetrating warhead or earth-penetration warhead (EPW), shaped charge liner, armor-piercing long-rod projectile (LRP), high-explosive shells and so on. These projectile materials comprise steel, tungsten alloys, copper, aluminum, new metallic energetic materials, etc. For penetration through a concrete target, it is essential for the material of penetrating warhead case to have a high strength and ductility. In this Special Issue, we welcome articles that focus on the relationship between advanced manufacturing technology and its influence on the final performance of projectile materials, including the characterization method of the mechanical properties of materials, regulation of manufacturing characteristics of projectiles, dynamic behavior and fracture under impact and explosion loading, terminal effects of projectile, and performances in different environments, such as temperature, pressure, etc.

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About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

Prof. Dr. Yong Zhang

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