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Advanced Forming Technologies, Mechanical Performance and Structural Properties of Metallic Materials and Alloys

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Message from the Guest Editors

Advanced forming technologies have revolutionized the manufacturing industry by enabling the production of complex components with improved structural and mechanical properties. These technologies, coupled with advancements in understanding the structural properties of metallic materials and alloys, have paved the way for innovative manufacturing processes and enhanced product performance in crucial applications. Thus, understanding the mechanical performance and structural properties of metallic materials and alloys such as Ti alloys, Al alloys, Mg alloys and ultra-high-strength steels is essential for optimizing the forming processes and ensuring the reliability and functionality of the final products.

Therefore, this Special Issue aims to present the latest achievements in advanced metal forming technologies coupled with an understanding of the mechanical performance and structural properties of metallic materials and alloys and the latest research related to the computational approaches for metal forming technologies. Full papers, communications, and reviews focusing on new developments in the formation of advanced metallic materials and alloys are welcome.



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Special Issue



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Message from the Editor-in-Chief

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