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Advances in Plastic Deformation Technologies

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Message from the Guest Editors

Advanced finishing technologies play a key role in automotive, aerospace, and biomedical industries and are an integral part of mechanical engineering. One of the most important groups of finishing technologies is based on plastic deformation. A number of important issues are still to be addressed: How can we increase productivity and lower the production costs while maintaining the high quality of products? How can we make use of the plastic deformation in the processing of products obtained using additive technologies? What are the best materials to be used in the design of instruments? Answering these questions is critically important for gaining insightful understanding of both new processes such as, incremental plastic deformation, shoot peening, nano-burnishing, wide burnishing, and low plasticity burnishing, as well as traditional ones such as extrusion, drawing, and bending. The number of articles on plastic deformation in the mainstream international journals is steadily growing , and we hope that our esteemed colleagues, will make further important contributions to this quickly growing field with your high-quality research articles, communications and reviews.

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Message from the Editorial Board

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.

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