Special Issue

High-Power Pulsed Processes for the Testing, Welding and Forming of Metallic Materials

Message from the Guest Editor

High-power pulsed processes, whether via an explosion, electro-hydraulic discharge, magnetic pulse, or vaporizing foil actuators, have many advantages for diverse applications such as the welding of similar and dissimilar materials, crimping, large- and small-dimension part forming, cutting, characterization of the dynamic behavior of materials, etc. However, many locks—scientific or technological—and a lack of knowledge of these processes mean that their application in the industry remains limited. In this Special Issue of the journal *Metals*, which we hope will be useful to both the industry and researchers, we plan to bring together a set of contributions that present the state-of-the-art of high-power pulsed processes. We want to place an emphasis on:

- The presentation of the processes from both scientific and technological perspectives;
- The presentation of the specific advantages of these processes by drawing comparisons with other technologies;
- The presentation of original applications;
- The presentation of scientific and technological locks.

Guest Editor

Prof. Dr. Guillaume Racineux
Ecole Centrale Nantes, Research Institute in Civil Engineering and Mechanics (GeM), 1 rue de la Noë, 44321 Nantes, CEDEX 3, France

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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

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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
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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