



## Gas Tungsten Arc Welding

Guest Editors:

**Dr. Hai-Lung Tsai**

Department of Mechanical and  
Aerospace Engineering, Missouri  
University of Science and  
Technology, Rolla, MO 65409-  
0500, USA

**Dr. Junling Hu**

Department of Mechanical  
Engineering, University of  
Bridgeport, Bridgeport, CT 06604,  
USA

Deadline for manuscript  
submissions:

**closed (31 May 2017)**

### Message from the Guest Editors

Dear Colleagues,

Gas Tungsten arc welding (GTAW) is an arc welding process that uses a non-consumable tungsten electrode to produce an arc and form a weld. It is widely used in joining thin sheet metals because of its high weld quality and its suitability for most commercial metals. GTAW is also a complex process, which involves interaction of arc plasma, weld pool dynamics and solidification, with simultaneous interaction of materials at the plasma, gaseous, and solid states. Extensive experimental and numerical studies have been carried out to study a large number of phenomena in a GTAW process, including electromagnetics, heat transfer, fluid flow, metal transfer, microstructure evolution, and thermal mechanical effects. The Special Issue “Gas Tungsten Arc Welding” aims to cover recent advances in the development of numerical modeling and experimental study of GTAW processes, sensing and control of GTAW processes, process optimization, and new applications of GTAW.





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**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

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