



Development of Thin Film Fabrication Using Magnetron Sputtering

Guest Editor:

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Message from the Guest Editor

Due to their versatility, thin metal films are being used in many modern technologies such as optoelectronics, microelectronics, catalysis, energy conversion and storage, sensors, actuators, and food packaging. Also, thin metal nanofilms have potentially used in applications relevant to other fields as bio- and nanopore sensors, nanomedicine, and voltage-charging separations. Thin metal films used in the many modern technological applications should satisfy very strict technical requirements relating to metal deposition method. The enabling of thin metal films to these applications, the uniformity, grain size, morphology, and porosity of thin metal films has critical roles. Among the metallic coating methods, sputtering has attracted much attention today. In this issue, we are looking for a manuscript that covers the following topics:

- Granular metallic films for superconductivity
- Thin metallic films for catalytic application
- Ultra-thin metallic films for optical transparency
- Thin metal films for tunable optical mirrors

This issue provides an excellent opportunity to review the examined previously unaddressed aspects, propose and develop new approaches.





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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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