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DESCRIPTION

Thin Solid Films is an international journal which serves scientists and engineers working in the fields of **thin-film synthesis, characterization, and applications**. The field of **thin films**, which can be defined as the confluence of materials science, surface science, and applied physics, has become an identifiable unified discipline of scientific endeavor. The scope of *Thin Solid Films* is indicated by, but not limited to, the following topical subheadings:

- A. Synthesis and Characterization
- B. Surfaces, Interfaces, and Colloidal Behaviour
- C. Metallurgical, Protective, and Hard Layers
- D. Mechanics and Nanomechanics of Thin Layers
- E. Electronics, Optics, and Opto-electronics
- F. Magnetics and Magneto-optics
- G. Superconductivity
- H. Langmuir–Blodgett, Biological, and Related Films
- I. Thin Film Devices, Sensors, and Actuators
- J. Condensed Matter Film Behaviour. **Benefits to authors**

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GUIDE FOR AUTHORS

INTRODUCTION

Aims and scope

Thin Solid Films is an international journal that serves scientists and engineers working in the fields of thin-film synthesis, characterization, and applications. The field of thin films, which can be defined as the confluence of materials science, surface science, and applied physics, has become an identifiable unified discipline of scientific endeavor. The scope of Thin Solid Films is indicated by, but not limited to, the following topical subheadings:

A. *Synthesis and Characterization*: Nucleation and growth from the gas, liquid, and solid phases; microstructural and microchemical film characterization, new concepts and techniques for film synthesis, modification, processing, and characterization.

B. *Surfaces, Interfaces, and Colloidal behavior*: Surface and interface phenomena: physics, chemistry, and applications.

C. *Metallurgical, protective, and Hard Layers*: Fundamentals aspects of layers and coatings used in diffusion barrier, corrosion, high-temperature, wear, erosion, and other extreme environments.

D. *Mechanics and Nanomechanics of Thin Layers*: Mechanical properties of thin layers and nanoscale structures; surface forces; micro- and nanoengineering.

E. *Electronics, Optics, and Optoelectronics*: Synthesis, properties, and processing of layers used in electronic, optical, and opto-electronic applications; device engineering.

F. *Magnetics and Magneto-optics*: Fundamental aspects of layers used in magnetic and magneto-optic applications; magnetic, optical, and magneto-optical recording devices.

G. *Superconductivity*: Synthesis and properties of layers used in superconducting applications.

H. *Langmuir-Blodgett, Biological, and Related Films*: Synthesis and properties of Langmuir-Blodgett, biological and related layers; device applications.

I. *Thin Film Devices, Sensors, and Actuators*: Fabrication, processing, and properties of devices including sensors and actuators based upon thin layers.

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