

# THIN SOLID FILMS

International Journal on the Science and Technology of Condensed Matter Films

## **AUTHOR INFORMATION PACK**

#### **TABLE OF CONTENTS** Description p.1 • **Audience** p.1 • **Impact Factor** p.1 Abstracting and Indexing p.2 **Editorial Board** p.2 . **Guide for Authors** p.3



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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.

## AUDIENCE

Scientists and Engineers active in research, development and applications of condensed matter films.

## **IMPACT FACTOR**

2009: 1.727  $\odot$  Thomson Reuters Journal Citation Reports 2010

## ABSTRACTING AND INDEXING

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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.

J. Condensed Matter Film Behavior: Interdisciplinary and multidisciplinary topics.

### Peer review process of full length articles

The editors seek the opinion of experts in the field for evaluation of all contributions to Thin Solid Films prior to editorial decision. We make efforts in obtaining the opinion of two independent reviewers.

### Types of contributions

• Full length (regular) papers not previously published nor posted on the web.

- Invited review articles.
- Letters, 1800-2500 words, reporting important results that justify priority handling.

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*Intent*: The purpose of Letters in Thin Solid Films is to provide a rapid publication vehicle for novel and important results that have the potential to stimulate new research in the general area of thin films.

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Letters, as opposed to full articles, are intended for the rapid dissemination of significant new fundamental knowledge. Merely being free of errors and reporting incremental progress in the field is not sufficient for Letter publication. We also do not accept publication of ongoing research as a series of Letters. Such work should be reported in a full paper.

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[2] A. Erdemir, C. Bindal, J. Pagan, P. Wilbur, Surf. Coat. Technol. 76/77 (1995) 559.

Reference to a thesis (if available through a library):

[3] R. Ramesh, Ph.D. Thesis, College van Dekanen, University of Twente, The Netherlands, 1992. Reference to monographs, edited books:

[4] J.L. Vosson, W. Kern, Thin Films Processes, Academic Press, New-York NY, 1987.

[5] M.J. Carr, C.E. Lymar, J.M. Cowley, In: J.M. Cowley (Ed.), Electron Diffraction Technique, vol. 1, International Union of Crystallography/Oxford University Press, New York, 1992, p. 122. Reference to conference proceedings:

[6] C.H. Perry, F. Lu, F. Namavar, N.M. Kalkhoran, R.A. Soref, in: S.S. Iyer, R.T. Collins, L.T. Canham (Eds.), Light Emission from Silicon, Boston, U.S.A., December 3 5, 1991, Materials Research Society Symposium Proceedings 256 (1991) 153.

Reference to industrial reports and papers:

[7] J. Cleveland, Spring Constant Update, Digital Instruments, Santa Barbara, CA, 1996. [add web site address if available]

Reference to specific data:

[8] O.S. Heavens, Optical Properties of Thin Solid Films, Dover, New-York, 1991, p. 46.

Reference to unpublished results (subject to editor's approbation):

[9] D.H. Smith, Physics Department, Chicago University, Chicago, U.S.A., private commun. [also subjected to editor's approbation]

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