

# Instructions to Authors

## *Thin Solid Films*

### International Journal on the Science and Technology of Condensed Matter Films

Editor-in-chief, J. E. Greene  
Associate Editor, P. Desjardins

#### Types of contributions

- Original (regular) papers not previously published nor posted on the web
- Invited review articles
- Letters, 1800-2500 words, reporting important results that justify priority handling

#### 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:

- 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.
- Surfaces, Interfaces, and Colloidal behavior:** Surface and interface phenomena: physics, chemistry, and applications.
- Metallurgical, protective, and Hard Layers:** Fundamentals aspects of layers and coatings used in diffusion barrier, corrosion, high-temperature, wear, erosion, and other extreme environments.
- Mechanics and Nanomechanics of Thin Layers:** Mechanical properties of thin layers and nanoscale structures; surface forces; micro- and nanoengineering.
- Electronics, Optics, and Optoelectronics:** Synthesis, properties, and processing of layers used in electronic, optical, and opto-electronic applications; device engineering.
- Magnetics and Magneto-optics:** Fundamental aspects of layers used in magnetic and magneto-optic applications; magnetic, optical, and magneto-optical recording devices.
- Superconductivity:** Synthesis and properties of layers used in superconducting applications.
- Langmuir-Blodgett, Biological, and Related Films:** Synthesis and properties of Langmuir-Blodgett, biological and related layers; device applications.

- Thin Film Devices, Sensors, and Actuators:** Fabrication, processing, and properties of devices including sensors and actuators based upon thin layers.
- Condensed Matter Film Behavior:** Interdisciplinary and multidisciplinary topics.

#### Submission of contributions

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Each manuscript must be accompanied by a letter addressed to the editor stating that the work is original, unpublished, and not being considered elsewhere.

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The authors are requested to suggest names (with postal and e-mail addresses) of at least three individuals who are qualified to review their paper. The referee(s) selected by the Editor may not necessarily be chosen from this list. Please note that processing of the manuscript may be delayed if these suggestions for referees are not given in the cover letter of the original manuscript.

##### There are no page charges

##### Language

Papers will be published in either American or British English. It is expected that authors submit carefully written and proofread material meeting the standards of scientific publication. It is recommended that non-English speaking authors have their work edited and proofread by someone fluent in English before submission of their paper.

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The manuscript should be prepared in double-spaced 12-pt font, preferably Arial, Times, Helvetica, Symbols, on single-column, single-sided, numbered pages with a wide (3 cm) margins. Leave a blank line between each paragraph.

Please adhere to the following order: Title, Authors, Affiliations, Abstract, Keywords, Main text, Acknowledgements, Appendix, References, List of figure and table captions, Tables, Figures. Some flexibility of presentation of the main text will be allowed but the authors are urged to arrange the subject matter clearly under such headings as Introduction, Experimental Details, Results, Discussion, etc. The sections and subsections should be numbered 1., 1.1, ..., 2., ...

Use SI units.

##### Title

Title should be concise and informative. Avoid abbreviations and formulas where possible.

##### Author names and affiliations

Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. Present the authors' affiliation

addresses (where the actual work was done) below the names. Indicate all affiliations with a lowercase superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name, and, if available, the e-mail address of each author.

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Each paper should have a concise and factual abstract of ~100 words. The abstract should state briefly the purpose of the research, the principal results and the major conclusions. As the abstract is often presented separate from the article, it must be able to stand alone.

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References should be numbered consecutively (numerals in square brackets) throughout the text and collected together with the footnotes in a reference list at the end of the paper. In the text, references are noted by on-line Arabic numerals in square brackets as in: "Smith and Roberts [1] measured..." These reference indicators should be one space from words and inside punctuation: "... some previous work [1,3,5-7]." Reference to not readily accessible reports should be avoided. Reference to a collection of abstracts is not a readily accessible report.

List all authors; use first name initials and last name(s) only. Journal titles should be abbreviated according to the Chemical Abstracts Service Source Index (<http://www.cas.org/sent.html>). Leave a blank line between each entry in the list of references.

### Examples of reference formats:

#### Journal papers

- [1] D. Brandl, Ch. Schoppmann, Ch. Tomaschko, H. Voit, *Thin Solid Films* 242 (1995) 192.
- [2] A. Erdemir, C. Bindal, J. Pagan, P. Wilbur, *Surf. Coat. Technol.* 76/77 (1995) 559.
- [3] S. Auzary, K.F. Badawi, L. Bimbault, J. Rabier, R.J. Gaboriaud, P. Goudeau, *J. Phys. III* 7 (1997) 35 (in French).

- [4] S. Roberts, *Thin Solid Films* (to be published). [*if accepted for publication, provide a copy of the acceptance letter*]

#### Thesis (if available through a library)

- [5] R. Ramesh, Ph.D. Thesis, College van Dekanen, University of Twente, The Netherlands, 1992.
- [6] J.L. Vosson, W. Kern, *Thin Films Processes*, Academic Press, New-York NY, 1987.
- [7] M.J. Carr, C.E. Lyman, 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.
- [8] M.J. Adams, B.J. Briscoe, S.K. Sinha, in: D. Dowson, C.M. Taylor, T.H.C. Childs, M. Godet, G. Dalmas (Eds.), *Dissipative Processes in Tribology*, Tribology Series, vol. 27, Elsevier, Amsterdam, 1994, p.223.

#### Conference Proceedings

- [9] 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.
- [10] P. Hones, R. Sanjinés, F. Lévy, in: B.D. Sartwell, J.H. Givens, C. Mitterer, S.L. Rohde (Eds.), *25<sup>th</sup> International Conference on Metallurgical Coatings and Thin Films*, San Diego, U.S.A., April 27-May 1, 1998, *Thin Solid Films* 332 (1998) 240.
- [11] J.J. Favier, D. Camel, in: B. Cockayne, J.H.C. Hogg, B. Lunn, P.J. Wright (Eds.), *Crystal Growth 1986*, Proceedings of the Eight International Conference on Crystal Growth, York, U.K., July 13-18, 1986, p. 50.

#### Patent

- [12] H. Yamagishi, A. Hiroe, H. Nishio, K. Miki, K. Tsuge, Y. Tawada, U.S. Patent No. 5264710, 23 Nov. 1993.

#### Industrial reports and papers

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

#### For specific data:

- [14] O.S. Heavens, *Optical Properties of Thin Solid Films*, Dover, New-York, 1991, p. 46.
- [15] Powder Diffraction File, Joint Committee on Powder Diffraction Standards, ASTM, Philadelphia, PA, 1967, Card 4301027.

#### For unpublished results (subject to editor's approbation):

- [16] A. Roberts, S.M. Lanoix, unpublished [*if not accepted for publication, subject to editor's approbation*]
- [17] D. H. Smith, Physics Department, Chicago University, Chicago, U.S.A., private commun. [*also subjected to editor's approbation*]

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