

CHEMISTRY of MATERIALS

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Editorial

Call for Papers: Special Issue on Nanostructured Materials

In recognition of the broad interest in the subject among the readership of this journal, we have decided to devote one of the twelve regular issues of *Chemistry of Materials* during 1996 to papers in the area of nanostructured materials. Further details relating to the content of this special issue and a partial list of individuals who have agreed to contribute papers are included below.

This issue will be the second in a continuing series of special topical issues which focus on particular topics of broad interest to the materials chemistry community and are intended to highlight recent progress in these areas. It will follow by almost two years the highly successful first special issue on Organic Solid State Chemistry which was published in August of 1994. Suggestions for future topics as well as contributions to the current topic are hereby invited.

To avoid an excessive delay in the publication of some papers owing to variations in the date of submission, we will adhere to a strict **deadline for the receipt of papers for this special issue of January 31, 1996**. Furthermore, we request that papers be submitted *after* November 1, 1995.

All papers will be reviewed in the usual way by two or more experts (suggestions for potential reviewers are welcomed); in the event that revisions are needed, we will ask for a return of the revised manuscript within a few weeks of its receipt by the author. Papers that are excessively delayed due to revisions, late return of the proofs, or that are received after the indicated due date, if eventually accepted, will be included in a later issue of the journal.

The format for the papers and the criteria for publication will be the same as for any other issue of this journal. We therefore welcome the submission of **short reviews**[†] and preliminary **communications** as well as full papers (**articles**) that are original contributions and that relate significant new results, concepts, and/or literature reviews. We will adhere to this journal's commitment to the publication of only the highest quality papers in materials

[†] Short Reviews are intended to be concise reports on recent progress in key areas that are currently at the forefront of research in materials chemistry. They are limited to 10 journal pages in length (ca. 50 double-spaced manuscript pages) and yet should cover the chosen area in a comprehensive and objective manner. Several such reviews have already been solicited for this special issue, and individuals interested in submitting such papers should contact Dr. Interrante before proceeding to ensure that the chosen topic has not already been selected.

chemistry and make no guarantee in advance of submission for the eventual acceptance and publication of papers received for this issue. Please refer to our Notice to Authors (in the January 1995 issue or available upon request from this office) for details regarding manuscript preparation and the criteria for publication. In addition to noting your intention in your cover letter, all papers submitted for consideration for this special issue should be clearly marked at the top of the first page of the manuscript copy in the following manner: "submitted for publication as part of the special issue on nanostructured materials". **All papers must be submitted to the journal editor, Dr. Leonard Interrante, at the Department of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180-3590**

Special Issue of Chemistry of Materials on Nanostructured Materials

There is an intense interest in the area of nanostructured materials, directed at both fundamental issues and promising applications. This interest derives in part from the recognition that dramatic changes in physical properties and chemical reactivity occur in systems confined to nanometer dimensions. Synthetic control beyond the scale of typical molecules presents new challenges. Topics of interest for this special issue include the following:

- Synthetic methods, including bioinspired crystal growth, self-assembly strategies using liquid crystals, polymerization, molecular precursors, hydrothermal, etc.
- Confinement and chemistry in thin films
- Inclusion and intercalation chemistry in layered and three-dimensional networks
- Microporous solids
- Ceramic, ceramic/metal, sol-gel-based and other inorganic nanocomposites
- Polymer nanocomposites, phase-separated block copolymers and polymer mixtures
- Inorganic/organic hybrid systems
- Effects of nanoscale confinement on magnetic, electronic, optical, mechanical and other properties
- Applications of nanostructured materials, including sensors, data storage, catalysis, etc.

A partial list of individuals who have agreed to contribute papers to this special issue follows: T. Bein (Purdue), J. Bradley (Muelheim, Germany), C. Chidsey (Stanford), M. Davis (Caltech), J. Fendler (Syracuse), G. Flynn (Columbia), E. Giannelis (Cornell), S. Jenekhe (U. Rochester), D. Johnson (U. Oregon), D. Loy (Sandia), K. Klabunde (Kansas St.), T. Mallouk (Penn. St.), J. E. Mark (U. Cincinnati), T. Pinnavia (Mich. State), J. Schnur (Naval Res. Lab.), R. Schoellhorn (Berlin, Germany), U. Schubert (Vienna, Austria), R. Siegel (RPI), G. Stucky, (U. C. Santa Barbara), K. Suslick (U. Illinois), E. Thomas (MIT), J. M. Thomas (London and Cambridge), M. Ward (U. Minn.), G. Wilkes (Virginia Polytech.), G. Whitesides (Harvard), R. Ziolo (Xerox).

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