

# Macromolecules

EDITOR: FIELD H. WINSLOW

Room 1A-260, AT&T Bell Laboratories, Murray Hill, New Jersey 07974  
(201) 582-5340

## ASSOCIATE EDITORS

Frank A. Bovey  
Room 1D-260, AT&T Bell Laboratories  
Murray Hill, New Jersey 07974  
(201) 582-6356

Robert W. Lenz  
University of Massachusetts  
Amherst, Massachusetts 01003  
(413) 545-1375

Wayne L. Mattice  
Louisiana State University  
Baton Rouge, Louisiana 70803  
(504) 388-1627

Walter H. Stockmayer  
Dartmouth College  
Hanover, New Hampshire 03755  
(603) 646-2503

## EDITORIAL ADVISORY BOARD

Geoffrey Allen  
Burton C. Anderson  
Richard H. Boyd  
Pierre G. de Gennes  
Edmund A. DiMarzio

Paul J. Flory  
William W. Graessley  
Julia S. Higgins  
William R. Krigbaum  
Herman Mark

Carl S. Marvel  
James H. O'Donnell  
Charles G. Overberger  
Takeo Saegusa  
Richard S. Stein

Alan E. Tonelli  
Robert Ullman  
Gerhard Wegner  
Mitchell A. Winnik  
Bruno H. Zimm

*Ex-officio:* B. M. Culbertson

*Macromolecules* (ISSN 0024-9297) is published monthly by the American Chemical Society at 1155 16th Street, N.W., Washington, DC 20036. Second-class postage paid at Washington, DC, and additional mailing offices. POSTMASTER: Send address changes to Membership & Subscription Services, P.O. Box 3337, Columbus, OH 43210.

## BOOKS AND JOURNALS DIVISION

D. H. Michael Bowen, Director

Journals Department: Charles R. Bertsch, Head; Marianne C. Brogan, Associate Head; Mary E. Scanlan, Assistant Manager; Marc H. Gubkin, Associate Editor; John C. Webb, Assistant Editor

Production Department: Elmer M. Pusey, Jr., Head

Research and Development Department: Lorrin R. Garson, Head

Advertising Office: Centcom Ltd., 25 Sylvan Road South, Westport, CN 06881.

© Copyright 1985 by the American Chemical Society. **Copyright permission:** An individual may make a single reprographic copy of an article in this publication for personal use. Reprographic copying beyond that permitted by Section 107 or 108 of the U.S. Copyright Law is allowed, provided that the appropriate per-copy fee is paid through the Copyright Clearance Center, Inc., 21 Congress St., Salem, MA 01970. For reprint permission, please write to the Copyright Administrator, Books and Journals Division, at the ACS Washington address.

## Editorial Information

**Instructions for authors** and copyright transfer form are printed in the first issue of each volume. Please conform to these instructions when submitting manuscripts.

**Manuscripts for publication** should be submitted to the Editor, Field H. Winslow, at his Murray Hill address. Correspondence regarding **accepted papers** and **proofs** should be directed to the Journals Department at the address shown.

**Page charges** of \$25.00 per page may be paid for papers published in this journal. Payment does not affect acceptance or scheduling of papers.

**Bulk reprints** of individual articles are available. For information write to Distribution Office at the ACS Washington address.

The American Chemical Society and its Editors assume no responsibility for the statements and opinions advanced by contributors. Views expressed in the editorials are those of the author and do not necessarily represent the official position of the society.

Registered names and trademarks, etc., used in this publication, even without specific indication thereof, are not to be considered unprotected by law.

## Subscription and Business Information

**1985 subscription prices**, including postage. Subscriptions are available only on a calendar year basis. (For membership information, contact Office of Membership Development at the ACS Washington address.)

|                                      | U.S.  | Canada and Mexico | Europe Air Service Included | All Other Countries Air Service Included |
|--------------------------------------|-------|-------------------|-----------------------------|------------------------------------------|
| Printed                              |       |                   |                             |                                          |
| Members                              | \$ 44 | \$ 57             | \$ 68                       | \$ 82                                    |
| Nonmembers                           | \$254 | \$267             | \$278                       | \$292                                    |
| Microfiche                           |       |                   |                             |                                          |
| Members                              | \$ 44 | \$ 44             | \$ 52                       | \$ 52                                    |
| Nonmembers                           | \$254 | \$254             | \$262                       | \$262                                    |
| Supplementary material on microfiche | \$ 10 | \$ 14             | \$ 14                       | \$ 14                                    |

**New and renewal subscriptions** should be sent with payment to the Office of the Treasurer, Financial Operations, at the ACS Washington address. Subscriptions are

available only on a calendar year basis. Rates quoted do not apply to nonmember subscribers in Japan, who must enter subscription orders with Maruzen Company Ltd., 3-10 Nihonbashi 2-chome, Chuo-ku, Tokyo 103, Japan. Tel: (03) 272-7211.

**Printed edition single issue prices:** current year \$21.75; 1983-84, \$27.00; prior year \$53.00. **Back volume price:** \$315.00. Foreign postage additional. Mail orders should be sent to Microforms & Back Issues Office at the ACS Washington address.

**Phone orders** can be placed for printed, microfiche, and microfilm editions by calling the ACS Sales Office toll free at (800) 424-6747 from anywhere in the continental United States; Washington, D.C., area call (202) 872-8065. Phone orders can be charged to Visa, MasterCard, or American Express accounts.

**Changes of address** must include both old and new addresses with ZIP code and a recent mailing label. Send all address changes to Membership & Subscription Services. Please allow 6 weeks for change to become effective. **Claims for missing numbers** will not be allowed if loss was due to failure of notice of change of address to be received in the time specified; if claim is dated (a) North America; more than 90 days beyond issue date, (b) all other foreign; more than one year beyond issue date; or if the reason given is "missing from files". Hard copy claims are handled by Membership & Subscription Services.

**Supplementary material** is noted in the table of contents with a ■. It is available as photocopy (\$6.00 for up to 3 pages and \$1.50 per page for additional pages, plus \$2.00 for foreign postage) or as 24× microfiche (\$6.00, plus \$1.00 for foreign postage). See supplementary material notice at end of journal article for number of pages. Orders must state whether for photocopy or microfiche and give complete title of article, names of authors, journal, issue date, and page numbers. Prepayment is required and prices are subject to change. Order from Microforms & Back Issues Office at the ACS Washington address. Supplementary material also appears in the microfilm edition and may be ordered by subscription (in microfiche only).

American Chemical Society  
1155 16th Street, N.W.  
Washington, D.C. 20036  
(202) 872-4600  
TDD (202) 872-8733

Journals Department  
American Chemical Society  
2540 Olentangy River Rd.  
P.O. Box 3330  
Columbus, Ohio 43210  
(614) 421-3600 ext. 3171  
TELEX 6842086

Membership & Subscription Services  
American Chemical Society  
2540 Olentangy River Rd.  
P.O. Box 3337  
Columbus, Ohio 43210  
(614) 421-3776