

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
University of Akron
Akron, Ohio 44325
(216) 375-5159

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

EDITORIAL ADVISORY BOARD

Stuart L. Cooper
Adi Eisenberg
Curtis W. Frank
Henry K. Hall, Jr.
Eugene Helfand

J. P. Kennedy
Jacob Klein
Herman Mark
L. Monnerie
Charles G. Overberger

J. F. Rabolt
Bengt Ranby
Helmut Ringsdorf
Georges Smets
Ulrich Suter

Matthew Tirrell
D. L. VanderHart
G. D. Wignall
Bernhard Wunderlich
Hiromi Yamakawa

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 *Macromolecules*, Membership & Subscription Services, P.O. Box 3337, Columbus, OH 43210.

PUBLICATIONS DIVISION

Robert H. Marks, Director

Journals Department: Charles R. Bertsch, Head; Marianne C. Brogan, Associate Head; Mary E. Scanlan and Joseph E. Yurvati, Assistant Managers; Ann Marie Sprungle, Assistant Editor; James Cooper, Staff Editor

Research and Development Department:
Lorrin R. Garson, Head

Advertising Office: Centcom, Ltd., 500 Post Road East, Westport, CT 06880.

© Copyright 1988 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., 27 Congress St., Salem, MA 01970. For reprint permission, please write to the Copyright Administrator, Publications 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

1988 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.)

	Canada and U.S.		Mexico	Europe*	All Other Countries*
Printed					
Members—1 yr	\$ 53	\$ 67		\$ 85	\$103
2 yr	\$ 95	\$123		\$159	\$195
Nonmembers	\$342	\$356		\$374	\$392
Microfiche					
Members—1 yr	\$ 53	\$ 53		\$ 65	\$ 65
2 yr	\$ 95	\$ 95		\$119	\$119
Nonmembers	\$342	\$342		\$354	\$354
Supplementary material (microfiche)	\$ 12	\$ 16		\$ 16	\$ 16

* Air service included.

New and renewal subscriptions should be sent with payment to Financial Operations & Controller, ACS, P.O. Box 57136, West End Station, Washington, DC 20037.

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 \$29.00; prior year \$34.00. **Back volume price:** \$408.00. 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 toll free at (800) 227-5558 from anywhere in the continental United States; Washington, D.C., area call (202) 872-4363. 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 (\$10.00 for up to 3 pages and \$1.50 per page for additional pages, plus \$2.00 for foreign postage) or as 24× microfiche (\$10.00, 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 except structure factors 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