

**BULLETIN OF THE INSTITUTE
FOR CHEMICAL RESEARCH**

KYOTO UNIVERSITY

Vol. 44, No. 2

Special Issue on Polymer Chemistry, III

Published bi-monthly by

THE INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY
KYOTO, JAPAN

March, 1966

(Bull. Inst. Chem. Res., Kyoto Univ.)

INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY

Director

Sango KUNICHIKA

Members of Council

| | | |
|-----------------|----------------------|-----------------|
| Eiichi FUJITA | Rempei GOTOH | Osamu HAYAISHI |
| Masao HORIO | Katsuhiko ICHIKAWA | Hiroshi INAGAKI |
| Kiichi KIMURA | Keinosuke KOBAYASHI | Naokazu KOIZUMI |
| Sango KUNICHIKA | Michio KURATA | Minoru OHNO |
| Ichiro SAKURADA | Tsunenobu SHIGEMATSU | Sakae SHIMIZU |
| Keiiti SISIDO | Eiji SUITO | Toshio TAKADA |
| Hideo TAKAKI | Yoshimasa TAKEZAKI | Megumi TASHIRO |
| Waichiro TSUJI | Tatsuo YAMAMOTO | Takuji YANABU |
| Hideki YUKAWA | | |

Publication Committee

| | | |
|--------------------|----------------|-----------------|
| Sango KUNICHIKA | Sakae SHIMIZU | Toshio TAKADA |
| Yoshimasa TAKEZAKI | Waichiro TSUJI | Tatsuo YAMAMOTO |

Business Staff

Yaichi ISHIMOTO Shigeo HOTTA

History of Publications

| Term | Vol. | Title | Published |
|-----------------------------|--------------|--|-----------------|
| Jan., 1929- Dec., 1947 | 1-16 | 化学研究所講演集 (The Reports of the Institute for Chemical Research) | Indeterminately |
| April, 1933 | — | 10 Jahre Institut für Chemische Forschung (化学研究所創立十周年記念号) | — |
| March, 1949- Dec., 1949 | 17-19 | 化研講演集 (The Reports of the Institute for Chemical Research) | Indeterminately |
| March, 1950- Sept., 1952 | 20-30 | 化学研究所報告 (Bulletin of the Institute for Chemical Research) | Quarterly |
| Dec., 1951 | — | The Commemoration Volume for the Silver Jubilee (化学研究所創立二十五周年記念号) | — |
| Jan., 1953 onwards | 31 No. 1- | Bulletin of the Institute for Chemical Research (化学研究所報告) | Bi-monthly |

CONTENTS

Special Issue on Polymer Chemistry, III

| | |
|---|-----|
| Hiroshi Ohnuma, Tadao Kotaka and Hiroshi Inagaki: The Terminal Group Effect on Solution Properties of Linear Macromolecules: Preliminary Results | 123 |
| Ichiro Sakurada, Yasuyoshi Sakaguchi and Yasuhiro Ohmura : Hydrolysis of Polymeric Esters with Polymeric Sulfonic Acids..... | 135 |
| Michio Kurata : Hydrodynamic Properties of Dilute Solutions of Ring Polymers. (II). Twisted Ring Polymers | 150 |
| Fumio Sakaguchi, Ryoza Kitamaru and Waichiro Tsuji: Cocrystallization and Crystalline Transformations in Copolymers of Butene-1 and Olefins | 155 |
| Ichiro Sakurada, Keisuke Kaji, Katsuhiko Nakamae and Susumu Wadano: Experimental Determination of the Elastic Moduli of Polymer Crystals in the Direction Perpendicular to the Chain Axis | 168 |
| Waichiro Tsuji and Masazo Imai: Study on the Decrystallization of Cotton | 183 |
| Tadao Kotaka, Nobuo Donkai and Hiroshi Inagaki: The Archibald Ultracentrifugation Method in Binary Solvent Systems..... | 192 |

京都大学化学研究所報告第44卷第2号

昭和41年8月8日 印刷 【非売品】
昭和41年8月10日 発行

大阪府高槻市大学町1番9号
京都大学化学研究所

編集兼発行人 国 近 三 吾

京都市上京区下立売通小川東入
印刷所 中西印刷株式会社

京都市上京区下立売通小川東入
印刷者 中 西 勝 太 郎