# Annual Reports in Inorganic and General Syntheses 1972

Edited by

Kurt Niedenzu and Hans Zimmer

# Annual Reports in Inorganic and General Syntheses – 1972

**Edited by**

**Kurt Niedenzu**

*Department of Chemistry*
*University of Kentucky*
*Lexington, Kentucky*

**Hans Zimmer**

*Department of Chemistry*
*University of Cincinnati*
*Cincinnati, Ohio*

**Academic Press**

New York and London 1973
A Subsidiary of Harcourt Brace Jovanovich, Publishers

ACADEMIC PRESS, INC.
111 Fifth Avenue, New York, New York 10003

*United Kingdom Edition published by*
ACADEMIC PRESS, INC. (LONDON) LTD.
24/28 Oval Road, London NW1

LIBRARY OF CONGRESS CATALOG CARD NUMBER: 72-9991

PRINTED IN THE UNITED STATES OF AMERICA

# PREFACE

The constant increase in the volume of chemical literature poses a problem for even the most ardent reader and frequently results in a lack of current information concerning methods of preparation. This is partly due to the fact that potentially useful data are widely scattered throughout the literature with few journals emphasizing synthetic aspects.

With this in mind an organized annual summary of new synthetic developments in inorganic chemistry and its related areas should be beneficial to the specialist as well as the chemist who has only a casual interest in synthesis.

To be of most value to the reader "Annual Reports in Inorganic and General Syntheses" is organized according to the Periodic Table. In addition to regular contributions based on the individual elements or groups of elements, a few chapters summarizing reaction principles, methods, specific classes of materials, etc. will be selected each year to be included in the "Reports." It is hoped that these topics will be of interest to the preparative chemist by illustrating recent trends of research and outlining possible future avenues of approach.

It is our goal to provide a useful summary of current information at a reasonable price. Hence, details are generally not presented; rather, the reader is expected to use the "Reports" as a source of information and as a guide to the original literature.

If the "Reports" are accepted by their intended audience, they will be published annually. The editors welcome any suggestions which may tend to improve the usefulness of future volumes.

Kurt Niedenzu
Hans Zimmer

# CONTENTS