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## **Advances in Polymer Science**

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## **Aims and Scope**

The series *Advances in Polymer Science* presents critical reviews of the present and future trends in polymer and biopolymer science. It covers all areas of research in polymer and biopolymer science including chemistry, physical chemistry, physics, material science.

The thematic volumes are addressed to scientists, whether at universities or in industry, who wish to keep abreast of the important advances in the covered topics.

*Advances in Polymer Science* enjoys a longstanding tradition and good reputation in its community. Each volume is dedicated to a current topic, and each review critically surveys one aspect of that topic, to place it within the context of the volume. The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically, presenting selected examples, explaining and illustrating the important principles, and bringing together many important references of primary literature. On that basis, future research directions in the area can be discussed.

*Advances in Polymer Science* volumes thus are important references for polymer scientists, or scientists interested in polymer science - as an introduction to a neighboring field, or as a compilation of detailed information for the specialist.

Review articles for the individual volumes are invited by the volume editors. Single contributions can be specially commissioned.

## **Publisher's Note**

The present volume of *Advances in Polymer Science* is a collection of substantial review articles on interesting and valuable subjects from different areas of Polymer Science. The volume was not originally planned as a topical volume. The articles were invited and reviewed by the Series Editors of *Advances in Polymer Science* on an independent basis. The collected articles were put together for publication by the publisher.

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Publishing Editor, Springer

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Editors

# Controlled Polymerization and Polymeric Structures

Flow Microreactor Polymerization, Micelles  
Kinetics, Polypeptide Ordering, Light  
Emitting Nanostructures

With contributions by

C. Cai · Y.K. Hong · J. Joo · S.H. Lee · J. Lin · R. Lund ·  
A. Nagaki · D.H. Park · D. Richter · L. Willner ·  
J.-i. Yoshida · W. Zhu · Z. Zhuang

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*Editors*

Akihiro Abe  
Department of Industrial Chemistry  
Tokyo Institute of Polytechnics  
Atsugi, Japan

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Department of Macromolecular Science  
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Daejeon, Korea  
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Ecole Supérieure de Physique et Chimie I  
Paris, France

Shiro Kobayashi  
Kyoto Institute of Technology R & D Center  
for Bio-based Materials  
Kyoto, Japan

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