



Introduction to Polymer–Clay Nanocomposites (Political Violence)

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This book focuses on polymer–clay nanocomposite materials. It introduces readers to polymers, clays, and organo-clay and discusses the nature of interparticle interactions and physical adsorption, which are predominant in the synthesis of organo-clay; conversion of clay to organo-clay; interactions between functional groups in the interlayer region of clay and modifier ions; synthesis of organo-clays and their uses; and the commercial utilization of organo-clays. The text then covers the preparation of polymer–clay nanocomposites and their characterization, properties, performance, and applications.

The primary goal of this book is to aid readers who wish to engage in the research and development of polymer–clay nanocomposites and to offer them an overview of the commonly used polymer–clay nanocomposites and their origins, manufacture, properties, and potential applications. This book will serve as a general introduction to researchers just entering the field and as a useful reference for scholars from other subfields.

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Editorial Review

Review

"This book presents important aspects regarding the classification, characterization techniques, synthesis, and reactions of polymers and clays and addresses the synthesis procedures to obtain polymer–clay nanocomposites and their respective application range. It is an excellent source of knowledge in the field of polymer–clay nanocomposites and can be used by scientists, researchers, students, and industrials."

? Prof. Guilherme L. Dotto, Federal University of Santa Maria, Brazil

"A well-structured and easy-to-read book that follows the logical sequence of materials science, synthesis-characterization-practical application, and an excellent reference for those interested in getting a general overview of the fascinating polymer–clay nanocomposites with enhanced properties with respect to pure inorganic and organic solids and whose practical applications cover diverse areas."

? Dr. Alberto Marinas-Aramendía, Campus de Rabanales, University of Cordoba, Spain

"This book with updated literature provides an excellent reference for undergraduate and graduate students, researchers, and practitioners. It represents a complete and coherent study of the general concepts, characterization, and properties governing polymers and specifically polymer–clay nanocomposites. With commercial applications discussed throughout and experimental results connected with theory, this is an ideal reference for those working in polymer science."

? Prof. Mahir Alkan, Balıkesir University, Turkey

About the Author

Ahmet Gürses is lecturer and researcher in the Department of Chemistry Education, Faculty of Education, Ataturk University, Turkey. He received his master's degree and doctorate in physical chemistry from Institute of Pure and Applied Sciences, Atatürk University. In 1993, he became an associate professor of physical chemistry at the university. Prof. Gürses is also a member of the Turkish Chemistry Association. His fields of interest are physical chemistry as well as surface chemistry, polymer chemistry, and polymer–clay nanocomposites.

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