

## Preface

This is collection of papers from the 2017 China Functional Materials Technology and Industry Forum. Functional materials are generally characterized as those materials which possess particular native properties and functions of their own, including electrical, magnetic, optical, thermotic, acoustic, mechanic, chemical, biological functions.

Functional materials are found in all classes of materials: ceramics, metals, polymers and organic molecules. Functional materials are often used in information engineering, bioengineering, energy conversion and storage, environmental engineering, space engineering, and so forth.

The development of functional materials is at the heart of technological needs and the forefront of materials research. This book provides a comprehensive and up-to-date treatment of functional materials.

This book aims to collect the up-to-date reports of functional materials research achievements. The book would appeal to researchers who work on functional materials study. The readers of this book could find wide range of topics in functional materials field.

The contribution of every author to this book should be highly appreciated. Moreover, the book could not be successfully published without the hard work of all the editors. Thanks to all the contributors and supporters of this book.