# Preface

The 3rd International Conference on Chemical Engineering and Advanced Materials (CEAM 2013) was successfully taken place in Guangzhou, China, on July 6–7, 2013. CEAM 2013 is organized by Guangdong University of Technology, Guangdong Petrochemical Research Institute, and Guangzhou University, China. The objective of the 2013 International Conference on Chemical Engineering and Advanced Materials (CEAM 2013) is to provide a forum for the discussion of new developments, recent progress, and innovations in the chemical engineering and advanced materials. It addresses all aspects of these fields. The emphasis is on current and future challenges in research and development in both academia and industry. It emphasizes long-term, fundamental research aimed at discovering novel phenomena, processes, and tools.

All those contributions have been peer reviewed through processes administered by the scientific committee. Reviews were conducted by the expert referees of international and domestic of China before accepted for publication. This book covers the subject areas of fine chemicals and specialty chemicals, catalyst and catalytic reaction, energy development and energy chemical engineering, clean production and green chemical technology, polymer engineering, energy conservation and emission reduction, biological chemical and technology, electrochemistry, waste disposal and environmental chemicals, chemical thermodynamics and kinetics, chemical metallurgy and mining explorations, chemical process system and information engineering, chemical machinery and equipment, paper and fiber engineering, etc.

We are grateful to all authors for submissions to this conference and for sharing the information and experience they've acquired. We are very delighted to welcome you to next conference. Enjoy the high quality technical program and the beauty of the local region.

*The Committee of CEAM 2013*

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The 3rd International Conference on

Chemical Engineering and Advanced Materials

(CEAM 2013)

## Organized by:

Guangdong University of Technology, China

## Co-organized by:

Guangdong Petrochemical Research Institute

Guangzhou University, China

## Supported by:

National Natural Science Foundation of China

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