

# Preface

This is the proceedings of the selected papers mainly presented at Chinese Materials Congress 2014 (CMC2014) held in Chengdu, China, July 4-7, 2014.

The Chinese Materials Congress (CMC) is the most important serial conference of Chinese Materials Research Society (C-MRS) and is held each year since early 1990s. Chinese Materials Congress 2014 had 19 Symposia covering four fields of Energy and environmental materials, Advanced functional materials, High performance structural materials and Basic research for materials. Nearly 2000 participants attended the congress, and the organizers received more than 700 technical papers. By recommendation of symposium organizers and after peer reviewing 452 papers are published in the present proceedings, which are divided into four volumes of

Part 1: Energy and environmental materials

Part 2: Advanced functional materials

Part 3: High performance structural material

Part 4: Basic research of materials

For the editorial and technical consideration 36 selected papers presented at International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM2014) which was organized also by C-MRS held in Haikou, China, October 24-27, 2014 are added in the CMC2014 proceedings. 7 papers are added in Part 2, 21 papers are added in Part 3, and 8 papers are added in Part 4. And therefore the total paper number of the proceedings is 488.

This is the volume for Part 2 including 123 papers selected from Symposium E: Microelectronics and optoelectronics materials, Symposium F: Electronic Materials, Symposium G: Multiferroic materials, Symposium H: Smart Materials, Symposium I: Vanadium-Titanium and rare earth functional materials, Symposium J: Biomaterials, Symposium K: High performance and functional polymer materials.

The editors would like to give the thanks to the symposium chairs and all the paper reviewers of this volume, especially to Prof. Yafang Han, Prof. Jiatao Zhang and Prof. Ying Wu for their English polishing of the manuscript. The thanks should be also given to Mr. Hongtao Wang, Mr. Yunfei Liang and Mr. Bo Han for their hard work of compilation and typesetting for each paper in this volume.

*Editors*

***Organized by***

Chinese Materials Research Society(C-MRS)

Sichuan University, China

***Supported by***

Ministry of Science and Technology of China

China Association for Science and Technology

National Natural Science Foundation of China

Chinese Academy of Sciences

Chinese Academy of Engineering