

Preface

This is the proceedings of the selected papers presented at Chinese Materials Congress 2015 (CMC2015) held in Guiyang, China, July 10-14, 2015.

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 2015 had 29 Symposia covering four fields of Energy and environmental materials, Advanced functional materials, High performance structural materials, and Design, preparation and characterization of materials. More than 3200 participants attended the congress, and the organizers received more than 700 technical papers. By recommendation of symposium organizers and after peer reviewing 489 papers are published in the present proceedings, which are divided into four volumes of

Part 1: Materials and Technologies for Energy Supply and Environmental Engineering

Part 2: Functional and Functionally Structured Materials

Part 3: Special and High Performance Structural Materials

Part 4: Methods of Design and Characterization of Materials, Research and Development of Technological Processes

This is the volume for Part 4 including 154 papers selected from 4 symposia of W. Advanced Preparation and Processing of Materials; X. Application of Advanced Characterization Methods in Materials Science; Y. Materials Evaluation and Service Security; Z. Materials Simulation, Calculation and Design

The editors would like to give the thanks to the symposium chairs and all the paper reviewers of this volume, and 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