

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 1 including 82 papers selected from Six symposia of A. Photocatalytic Energy Materials; B. Functional Materials for Environment; C. Energy Conversion and Storage Materials; D. Thermoelectric Materials and Devices; E. Advanced Materials of Oil and Gas Fields; F. Low Dimensional Materials and Devices in Extreme Conditions

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Editors