

Preface

This is the proceedings of the selected papers presented at Chinese Materials Congress 2012(CMC2012) held in Taiyuan, China, July13-18, 2012.

The Chinese Materials Conference (CMC) is the most important serial conference of Chinese Materials Research Society (C-MRS) and is held each year since early 1990s. The name of Chinese Materials Conference was changed as Chinese Materials Congress from 2012 as the scale of the conference is getting larger during the last few years.

Chinese Materials Congress 2012 had 23 Symposia covering six fields of Energy and environmental materials, Functional and electronic materials, Advanced structural materials, and Materials performance, modeling and simulation. Nearly 2000 participants attended the congress, and the organizers received about 800 technical papers. By recommendation of symposium organizers and after peer reviewing 534 papers are published in the present proceedings, which divided into four volumes of

Part 1: Energy and environmental Materials

Part 2: Functional and Electronic Materials

Part 3: Advanced Structural Materials

Part 4: Materials performance, modeling and simulation

This is the volume for Part 4 including 102 papers selected from Symposium P: Advanced processing of materials, Symposium V: Materials modeling and simulation, and Symposium W: Materials surface and interface.

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Editors

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