

Preface

The present volume contains selected papers of the 2013 International Conference on Advanced Materials Science and Technology (ICAMST 2013) held on September 17-18, 2013 in Yogyakarta, Indonesia. The conference, which has been jointly organized by Universitas Gadjah Mada, Institut Teknologi Bandung, Sebelas Maret University, Diponegoro University, and Semarang State University, Indonesia, has accepted more than 330 abstracts. After having reviewed the abstracts, 220 papers were presented in the conference. Finally, under a tight peer-review process by at least two expert referees for each paper, 157 papers were accepted in Advanced Materials Research, an international journal indexed by Scopus.

The papers are categorized into several groups that cover new developments and research results related to theoretical and experimental studies of advanced materials as well as their various processing and wide variety of applications. They include nanofibers and membranes, nanoparticles and powders, thick and thin films, biomaterials, electronic materials, magnetic materials, optical materials, composites, ceramics, and alloys as well as measurement and characterization techniques of materials.

Finally, we are grateful to PT. Fajar Mas Murni (Hitachi), PT. Besha Analitika, PT. TEKNOLABindo Penta Perkasa, PT HILAB Scienctama, PT. Unitama Analitika Perkasa, and PT. Chemoscience Indonesia as sponsors, Indonesian Physical Society (IPS) Yogyakarta & Central Java Chapter, Materials Research Society of Indonesia (MRS-ID), and Physics and Applied Physics Society of Indonesia (PAPSI) for their technical supports, and Trans Tech Publications for producing the volume. Last but not least, we also wish to thank reviewers for invaluable comments and suggestions.

Editors,

Dr. Kuwat Triyana

Department of Physics, Universitas Gadjah Mada (triyana@ugm.ac.id)

Prof. Dr. Khairurrijal

Department of Physics, Institut Teknologi Bandung (krijal@fi.itb.ac.id)

Dr. Risa Suryana

Department of Physics, Sebelas Maret University (rsuryana@uns.ac.id)

Prof. Dr. Heru Susanto

*Department of Chemical Engineering, Diponegoro University
(heru.susanto@undip.ac.id)*

Dr. Sutikno

Department of Physics, Semarang State University (smadnasri@yahoo.com)

Conference Organizers

Universitas Gadjah Mada (UGM), Institut Teknologi Bandung (ITB), Sebelas Maret (UNS), Diponegoro University (UNDIP), and Semarang State University (UNNES)