

Preface

Dear Distinguished Authors and Guests,

The Organizing Committee warmly welcomes you to 2012 International Conference on Advanced Materials Design and Mechanics (ICAMDM 2012) (TTP Conference ID:621), held on 5-7 June, 2012, Xiamen, China.

The aim of ICAMDM2012 is to present the latest research and results of scientists (professors, students, PhD Students, engineers, and post-doc scientist) related to Advanced Materials Design and Mechanics topics. This conference provides opportunities for the different areas delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

After the peer-review process, the submitted papers were selected on the basis of originality, significance, and clarity for the purpose of the conference. The selected papers and additional late-breaking contributions to be presented as lectures will make an exciting technical program. The conference program is extremely rich, featuring high-impact presentation. We hope that the conference results constituted significant contribution to the knowledge in these up to date scientific field.

The proceeding records the fully refereed papers presented at the conference. The main conference themes and tracks are Advanced Materials Design and Mechanics: Advanced Materials Design, Materials Engineering, and Manufacturing, Technology and Processing, Mechanical Engineering, Applied Computer Technologies and Control, etc. Hopefully, all participants and other interested readers benefit scientifically from the proceedings and also find it stimulating in the process.

On behalf of the organizing committee, I would like to especially thank Anne, Tanja, Dorthe and all the editors from Trans Tech Publications for their great support to ICAMDM2012. Without their excellent editorial work, ICAMDM2012 will not be published so timely and successfully.

Finally we wish all the authors and attendees of ICAMDM2012 a unique, rewarding and enjoyable memory at ICAMDM2012 in Xiamen, China. We look forward to your participation in 2nd ICAMDM in 2013.

With our warmest regards,

Jing Guo

Conference Organizing Chair

June 27, 2012

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