

Preface

The 8th International Conference on Material Science and Engineering (ICMSE2021) was held in Wuhan, Hubei, China, on Dec. 18-20, 2021. The idea of the conference was for the scientists, engineers, and students from the universities worldwide and the industry to present ongoing research activities and hence to foster research relations between the Universities and the industry. This conference provided opportunities for the delegates to exchange new ideas and application experiences, establish business or research relations, and find global partners for future collaboration. The topic of this collection is related to materials processing technologies of steel and alloys, polymer and composite materials, materials properties, and advanced manufacturing technologies in related fields of materials.

All the contributors are from America, Iraq, China, and more. All manuscripts published in the proceeding have been peer-reviewed by the reviewers drawn from the scientific committee, external reviewers, and editorial board, depending on the paper's subject matter. Reviewing and initial selection were undertaken electronically. After the rigorous peer-review process, the submitted papers were selected based on originality, significance, and clarity for the purpose of the conference.

We would like to thank the program chairs, reviewers, and the program committee for their work. We are grateful to all those who have contributed to the success of ICMSE2020. We hope that all participants and other interested readers benefit scientifically from the proceedings.

We hope you had a unique, rewarding, and enjoyable week at ICMSE2021 in China.

With our best regards,

ICMSE Organizing Committees
Wuhan, China

Committees

General Chairs

Muntean Edward Ioan, Faculty of Food Engineering University of Agricultural Sciences and Veterinary Medicine (USAMV) Cluj-Napoca, Romania

Rocio Maceiras-Castro, Centro Universitario de la Defensa University of Vigo, Spain

Dr. Sunirmal Jana, Sol-Gel Division, Central Glass and Ceramic Research Institute, India

Program Committee

Alberto Lazaro Garcia, Department of the Built Environment Eindhoven University of Technology, Netherlands

A.P/Dr. Yunlong Ding, School of Mechanical Engineering and Automation, University of Science and Technology Liaoning, China

Filippo Berto, Department of Management and Engineering University of Padua, Italy

Yunjung Kim, Chonbuk National University, Korea

Francisco M. Márquez-Linares, Universidad del Turabo, USA

Cristina Satriano, University of Catania, Italy

Wenxian Yu, Shanghai Jiaotong University, China

Farid Mena, Departments of Genetics & Hematology UNICAMP, Brazil

Shide Xiao, Southwest Jiaotong University, China

Vimal S. Joshi, Shri R. K. Parikh Arts and Science College Gujarat University, India

Xianmin Zhang, South China University of Technology, China

Noel M. Unciano, Environment and Biotechnology Division Industrial Technology Development Institute, Philippines

Dunwen Zuo, Nanjing University of Aeronautics & Astronautics, China

Mohan B. Dangi, Department of Geography and City and Regional Planning California State University, USA

Cheng Ji, School of Metallurgy and Materials, Northeastern University, China

Dibya Prakash Rai, Department of Physics, Pachhunga University College, Aizawl, India.

Gustaaf Schoukens, Faculty of Engineering, Ghent University, Belgium

Prof. SungCheal Moon, Korea Institute of Materials Science (KIMS) Republic of Korea

Zizi Abdeen, Department of Petrochemicals, Egyptian Petroleum Research Institute, Egypt

Murugan Ramalingam, Centre for Stem Cell Research, India

Hua Zhang, Wuhan University of Science and Technology, China

Zh. Y. Zhang, College of Science, Northwest A&F University, Yangling, Shaanxi, 712100, China

Xin Qiao, School of Electronic Engineering, Chaohu University, Chaohu, 238000, Anhui, China

Prof. Fan B.L. School of Mechanical Engineering, Beijing University of Science and Technology, Beijing, 100083, China

Omid Reza Baghchesaraei, Western Sydney University, Australia

Li-Fanguo, College of Mechanical and Electronic Engineering, China University of Petroleum, Qingdao 266580, China

Prof. Zonghua Zhang, School of Mechanical Engineering, Hebei University of Technology, Tianjin 300401, China

Prof. Wang Jianxing, North China University of Technology(NCUT),Beijing 100144, P.R. China

Sponsors

Advanced Science and Engineering Technology Institute
Hubei University of Technology