

Preface

We have great pleasure in presenting this special issue of the journal Solid State Phenomena which contains papers presented on the 8th International Conference on Metallurgy Technology and Materials (ICMTM 2020). The conference was organized by X-academy from 1-2 August 2020 in Xi'an, China.

This conference covered recent trends and achievements made in the field of metallurgical technologies, biotechnological processes, and materials science. The objective of this conference was to address metallurgy, mining engineering, advanced materials science and materials processing technology research and to promote contact between basic researchers to establish multilateral collaborations.

Finally we would like to thank the members of the technical committee, and the reviewers who spared their valuable time, for their advice which have certainly helped to improve the quality, accuracy, relevance and the sincere efforts to maintain the quality of each paper selected for this conference program and volume for publication. And thank every author and participant who has contributed to the success of the conference.

With our warmest regards,

Conference Organizing Chair

Prof. Nor Sabirin Mohamed

University of Malaya, Kuala Lumpur, Malaysia

July 02, 2020

Committees

Conference Secretary

Grace Yu, X-Academy

Guest Editor

Professor Nor Sabirin Mohamed, University of Malaya, Kuala Lumpur, Malaysia

Program Committee

Prof. Ke Wang, Lab for Information Storage & Films Technology, Huaqiao University, China

Prof. Guan Renguo, Northwestern Polytechnical University, China

Professor Xinzhuang Cui, Shandong University, China

Professor Xingzhong Zhang, Yanshan University, China

Jin Yujing Suzhou, Institute of Industrial Technology, China

Dr. Chen Hsu, D. Phil, Semiconductor and Ceramic Material Laboratory

Professor Maochieh Chi, Department of Fire Science, WuFeng University, Taiwan

Chang, Chia-Pao, Lungwha University of Science and Technology, Taiwan

handrasekar Srinivasakannan, Abu Dhabi, UAE

Alias Mohd Noor, Universiti Teknologi Malaysia, Malaysia

Dr. Zulkiflle Leman, Universiti Putra Malaysia, Malaysia

Dr. Mohd Hamdi Bin Abd Shukor, University of Malaya, Malaysia

Dr. Mohd Rafie Bin Johan, University of Malaya, Malaysia

Dr. Nor Sabirin Mohamed, University of Malaya, Malaysia

Kazi Md Salim Newaz, University of Malaya, Malaysia

Ir Drmohd Sapuan Salit, Universiti Putra Malaysia, Malaysia

Associate Professor Mamoun Fellah, Khenchela University, Algeria

Associate Professor Stefan Talu, Technical University of Cluj-Napoca, Romania

Associate Professor Panagiotis Kyratsis, Western Macedonia University of Applied Sciences, Greece

PhD. Zh. Algazy, Department of Applied Mechanics and Engineering Graphics, Institute of Industrial Engineering, Satbayev University, Kazakhstan

Associate Professor Iyas Khader, German Jordanian University, Jordan

Associate Professor Zuzana Murcinkova, Technical University of Kosice, Faculty of Manufacturing Technologies, Slovak Republic

Dr. Siamak Hoseinzadeh, Islamic Azad University, Iran

Assistant Professor, Abbas Bahrami, Isfahan University, Iran

Assistant Professor, Rajiv Kumar, Goswami Ganesh Dutt Sanatan Dharam College, India

Assistant Professor, Dr. Panagiotis Kyratsis, Western Macedonia University of Applied Sciences, Greece

Professor, Dr. N. Ethiraj, Dr.MGR Educational and Research Institute -University, India

Dr. Gauri Sankar Mukherjee, Defence Research & Development Organization, India

Dr. Antonio Riveiro Rodríguez, University of Vigo Applied Physics Department School of Industrial Engineering, Spain

Associate Professor, Yi Zhu, School of Mechanical Engineering in Zhejiang University, China.

Dr. Khaled Habib, Chemical and Materials Engineering from the Optical Science and Technological Center of University of Iowa, USA

Dr. Iman Bagherpour, National Iranian Gas Company, Fars, Iran

Dr. Yasin Polat, Nevşehir Hacı Bektaş Veli University, Turkey

Prof. Ghenadii Korotcenkov, State University of Moldova, Chisinau, Moldova

Dr. Sathiskumar Swamiappan, Microbial Biotechnology, School of Biotechnology and Genetic Engineering, Bharathiar University, India

Sponsor

X-Academy

X-Academy dedicates to organize worldwide academic conference. X-academy cooperate with IEEE (Institute of Electrical and Electronics Engineers), IEEE Harbin (Dalian) Section CIS Chapter and top university from in and out China by arranging and holding slap-up conferences on electrical engineering and automation, computer science, information technology, mechanic, materials, manufacturing engineering etc.. It creates and offers opportunities for experts, researchers and scholars from all over the world to present their technological advances and research results.