

Preface

This issue of the E3S Web of Conferences contains the proceedings of the 2023 3rd International Conference on Environment Resources and Energy Engineering (ICEREE 2023). The conference took place in Changsha, China during January 6th-8th, 2023 (virtual form), with the attendance of about 50 scholars, experts, researchers and scientists in related areas.

ICEREE 2023 is committed to creating an international cooperation and exchange platform for experts and scholars in the fields related to energy, resources and environmental engineering to share research results, discuss existing problems and challenges, and explore cutting-edge technologies. Everyone interested in these fields were welcomed to join the conference and to give comments and raise questions to the speeches and presentations.

The conference agenda covered three parts, including a keynote speech delivered by four sophisticated professors from different countries and regions. Among them, Prof. Thanikaivelan Palanisamy, our Conference Chairman, from CSIR-Central Leather Research Institute, India performed a dramatic keynote speech. He specialized in cleaner leather processing and zero discharge technologies and currently works on the development of new and advanced materials including nano, bio and composite materials, especially from wastes generated from leather industry for high-value applications in Healthcare, Environment, Lifestyle and Energy sectors. He has over 130 publications in peer reviewed international journals, 60 articles in conference proceedings and holds a h-index of 35 and 25 patents to his credit. We are very optimistic that all participants will acquire new ideas and knowledge from this conference to enhance the capability toward environment resources and energy engineering.

We have received tremendous paper submissions from all over China and abroad. Through a rigorous peer-review process, all submissions were performed double blind review to check their quality of content, level of innovation, significance, originality and legibility. Based on the expertise review comments, some excellent papers were accepted and the corresponding authors were invited to submit their papers for final publication. The accepted papers included topics on: Physical Oceanography, Ozone Layer Depletion, Solid Waste Management, Nuclear Energy Engineering, Renewable Energy Grid, etc.

We would like to thank all the participants in the 2023 3rd International Conference on Environment Resources and Energy Engineering. We would also like to thank the Conference Chairman and all the Conference Committee members, for the work they put in to organize this event. Finally, our special thanks go to the E3S Web of Conferences, for the endeavor of all its colleagues in publishing this paper volume. We deeply appreciate their efforts in making the conference successful.

The Committee of ICEREE 2023

Committee members

Conference Chairman

Prof. Thanikaivelan Palanisamy, CSIR-Central Leather Research Institute, Chennai, India

Conference Publication Chairman

Prof. Karthikeyan Palaniswamy, Department of Automobile Engineering, PSG College of Technology, India

Technical Program Committee Chairman

Prof. Sharifah Rafidah Wan Alwi, School of Chemical and Energy Engineering, Universiti Teknologi Malaysia, Malaysia

Conference Committee Members

Prof. Guangxiu Fang, Yanbian University, China

Prof. Tiankui Guo, China University of Petroleum, China

Prof. Rui Liang, China University of Mining and Technology, China

Prof. Qian Xu, Jiangsu University, China

Prof. Songlin Zhang, Northwest Normal University, China

A. Prof. Adelhard B. Rehiara, University of Papua, Papua Barat, Indonesia

A. Prof. Feng Guo, Xi'an Shiyou University, China

A. Prof. Mohammad Hossein Yazdi, Islamic Azad University (IAU), Iran

A. Prof. Riyang Shu, Guangdong University of Technology, China

A. Prof. Ravita Lamba, Malaviya National Institute of Technology Jaipur, India

A. Prof. Jinhui Zhao, Zhengzhou University, China

Dr. Aziz-Ur-Rahim Bacha (Pakistan), Fudan University, China