Preface

The 2020 International Conference on New Energy Technology and Industrial Development (NETID 2020) was planned to be held on December 18-20, 2020, in Dali, China. Due to the impact of COVID-19, many communities from all over the world were under strict health measures and strict travel restrictions, and participants of 2020 International Conference on New Energy Technology and Industrial Development (NETID 2020) also meet with the difficulty of travel restrictions. For communities, if our conference was not held in a virtual form, it would add huge work on traffic system, Exit-Entry system, medical system, etc., which is quite a serious issue, to actively respond to the call of the government, to strengthen the protection work, to effectively reduce people gathering and prevent COVID-19, considering the situation that most of the authors would like to publish their articles and make academic communications as scheduled, NETID 2020 was held on-line instead of postponing the conference. It was a challenge, not only to the organizers, but also to the participants who were delivering their speeches using videoconference tools, under different time zones.

NETID 2020 is an annual conference which aims to present the latest research and results of scientists (professors, doctoral students, and post-doc scientists) related to New Energy Technology and Industrial Development topics. This conference provides opportunities for delegates from different areas to exchange new ideas, applications and experiences face to face, to establish business or research relations, and to find global partners for future collaboration. We hope that the conference results in significant contributions to the knowledge base in these scientific fields.

The conference brings together about 110 leading researchers, engineers and scientists in the domain of interest from China, Malaysia, Singapore, Germany, Australia and France. The conference model was divided into two parts, including keynote presentations and online discussion. In the first part, each keynote speakers were allocated 30 minutes to present their talks via Zoom. After the keynote talks, all participants joined in a WeChat communication group to discuss more about the talks and presentations.

We were greatly honor to have invited three distinguished experts as our keynote speakers. Assoc. Prof. Danny H.W. Li, City University of Hong Kong, Kowloon, Hong Kong, was the first one to perform a thought-provoking speech. His research interests include building, energy and the environment in general, solar radiation and daylight illuminance in energy-efficient building designs in particular. Prof. Tiong Sieh Kiong, from Department of Electronics & Communication Engineering, University Tenaga Nasional, Malaysia as our second keynote speakers. His research interests are renewable energy, artificial intelligence, data analytics, microcontroller system and communication system. Prof. Meng Ni, from Hong Kong Polytechnic University, Kowloon, Hong Kong. His research interests include fuel cells, rechargeable metal-air batteries, electrochemical water-splitting and energy recovery from wastes. Their insightful speeches had triggered heated discussion in the second session of the conference. The WeChat discussion lasted for about 30 minutes. Every participant praised this conference for disseminating useful and insightful knowledge.

The proceedings of NETID 2020 span over 2 topical tracks, that include: New Energy Technology, New Energy Industry and other related fields. All the papers have been through rigorous review and process to meet the requirements of International publication standard.

We would like to express our gratitude to everyone involved. Without this dedicated cooperation, it would be impossible to hold the conference at such a high level and prepare the NETID 2020 proceedings.

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