Preface

We are glad to introduce you that the 2020 International Conference on Green Chemical and Environmental Science (ICGCES 2020), supported by AEIC Academic Exchange Information Center, was successfully held on June 12, 2020. In light of worldwide travel restriction and the impact of COVID-19, ICGCES 2020 was carried out in the form of virtual conference to avoid personnel gatherings. Because most participants were still highly enthusiastic about participating in this conference, we chose to carry out ICGCES 2020 via online platform according to the original schedule instead of postponing it. ICGCES 2020 aimed to provide a flexible platform for experts and scholars in the field of Green Chemical and Environmental Science to disseminate the latest research achievements and advanced technologies, as well as to promote the cooperation between each other.

We are greatly honored to have invited Prof. Jieshan Qiu, the Dean of College of Chemical Engineering at Beijing University of Chemical Technology (BUCT), to serve as our Conference Chair. Prof. Qiu is an internationally-recognized expert in chemical engineering, whose research areas cover both fundamental and applied aspects of carbon materials and science, with a focus on the methodologies for producing carbon materials from coal and coal-derived by-products such as coal tar pitch, and their applications in energy storage and conversion (solar cells, supercapacitor and batteries, etc.), catalysis and environment protection.

During the conference, the conference model was divided into three sessions, including oral presentations, keynote speeches, and online Q&A discussion. In the first part, some scholars were given about 5-10 minutes to perform their oral presentations one by one. Then in the second part, keynote speakers were each allocated 30-45 minutes to hold their speeches. Our beloved Conference Chair, Prof. Qiu, was also invited to present his latest research. In the last part of the conference, all participants were invited to join in a WeChat group to discuss and explore the academic issues after the presentations. The online discussion was lasted for about 30-60 minutes. The first two parts were conducted via online collaboration tool, Zoom, while the online discussion was carried out through instant communication tool, WeChat. The online platform enabled all participants to join this grand academic event from their own home.

We are glad to share with you that we still received lots of submissions from the conference during this special period. Hence, we selected a bunch of high-quality papers and compiled them into the proceedings after rigorously reviewed them. These papers feature following topics but are not limited to: Chemical, environmental and technological engineering, Fundamentals of chemistry and Chemical Engineering, Environmental Science and Engineering, Renewable energy and sustainable development. All the papers have been through rigorous review and process to meet the requirements of International publication standard.

Lastly, we would like to express our sincere gratitude to the Chairman, the distinguished keynote speakers, as well as all the participants. We also want to thank the publisher for publishing the proceedings. May the readers could enjoy the gain some valuable knowledge from the proceedings. We are expecting more and more experts and scholars from all over the world to join this international event next year.

The Organizing Committee of ICGCES 2020
Committee member

Conference Chairman
Prof. Jieshan Qiu, Beijing University of Chemical Technology (BUCT), China

Committee
Prof. Haiyun Wang, China Three Gorges University, China
Prof. Chun He, Sun Yat-sen University, China
Prof. Honghui Teng, Jilin Normal University, China
Prof. Xujie Lu, Hainan Tropical Ocean University, China
Prof. Chuanyan Diao, Guizhou Minzu University, China
Prof. Guoliang Song, Institute of Engineering Thermophysics, Chinese Academy of Science, China
prof. Shiquan Zhou, Huazhong University of Science and Technology, China
Prof. Huaili Zheng, Chongqing University, China
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Prof. Yanpeng Cai, Beijing Normal University, China
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A. Prof. Chaofeng Shao, Nankai University, China
A. prof. Xianhua Liu, Tianjin University, China