Editorial for the Special Issue: Energy Security and Chemical Engineering Congress (ESChE) 2019, Penang, Malaysia

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This Special Issue is a collection of eleven peer-reviewed notable papers presented at the *Energy Security and Chemical Engineering Congress* (ESChE) organized by the Centre of Excellence for Advanced Research in Fluid Flow (CAR-IFF), Universiti Malaysia Pahang (UMP) during 17–19 July, 2019 in Penang, Malaysia. The theme of ESChE 2019, i.e., “Empowering Growth in Sustainable Energy” was in collaboration with the Nguyen Tat Thanh University, Vietnam; King Mongkut’s University of Technology North Bangkok, Thailand; AMET University (Academy of Maritime Education and Training), India and the University of Madras, India.

This Special Issue of *Waste and Biomass Valorization* highlights the cutting-edge research by worldwide scholars presented at the ESChE 2019 conference. The emerging trends in various research fields related to waste-to-wealth approaches and innovative biomass utilization are greatly featured. In particular, this Special Issue covers recent findings regarding the sustainable treatments and implementation of biomass wastes in the palm oil industry using biological, chemical and thermochemical processes. The industrial

wastewater remediation, advanced nanomaterial synthesis for gas separation, nanocatalysis and material characterization as well as the economic assessment and energy analysis of biogas production processes are also emphasized in this Special Issue.

Lastly, we are grateful to all the authors for their excellent contributions to this Special Issue and participation at the ESChE 2019 conference in Malaysia. Additionally, the constructive comments by the reviewers for the appraisal and quality improvement of submitted manuscripts are greatly acknowledged. The Guest Editors sincerely appreciate the Editor-in-Chief Prof. Dr. Ange Nzihou for offering his valuable guidance to successfully execute this Special Issue. The noteworthy support from Ms. Ayshwarya Ganesan from the Journal Editorial Office to successfully complete this Special Issue is also deeply recognized.

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