Editorial

Tanimoto, Jun
Interdisciplinary Graduate School of Engineering Sciences, Kyushu University : Professor

Kyaw, Thu
Department of Advanced Environmental Science and Engineering, Faculty of Engineering Sciences,
Kyushu University : Associate Professor

Nasruddin
Department of Mechanical Engineering, Faculty of Engineering Sciences, Universitas Indonesia :
Ph.D.

Whulanza, Yudan
Department of Mechanical Engineering, Faculty of Engineering Sciences, Universitas Indonesia :
Ph.D.

他

Editorial

Evergreen - Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, begins the year 2020 with the publication of Volume 7, Issue 01. As always, *Evergreen* strongly advocates scientific advancements for the Sustainable and Green society. Humanity is facing a once-in-a-century type of challenge with Covid-19. The pandemic poses a significant impact on the wellbeing, the daily routines and the global economy. Governments all over the world are trying their best to contain this novel coronavirus and economic activities. The scientific community is doing their utmost best to assist people with containing the virus. For example, the early effort to sequence the genetic material of Sars-CoV-2 by the Chinese researchers has significantly contributed to the unprecedented speed in developing a vaccine (*The Guardian, https://www.theguardian.com/world/2020/mar/30/coronavirus-vaccine-when-will-it-be-ready*). Data scientists have been providing timely and constructive information such as the global outbreak maps and statistical data of the spread. The scientific committee has been prudent in assisting their respective government by providing invaluable knowledge and essential advice. For instance, the British government with the support of the medical and scientific committee, has come out with the Covid-19 strategy in phases: (i) containment, (ii) delay, (iii) research, and (iv) mitigate phases. (*https://news.sky.com/story/coronavirus-what-are-the-four-stages-of-the-uks-response-plan-11950264*). Meanwhile, the medical community is giving their utmost best to help the sicks while risking their lives. *Evergreen* wholeheartedly salute their effort and sacrifices. The Spanish flu has infected approximately 500 million and claimed 17 – 50 million (*https://en.wikipedia.org/wiki/Spanish_flu*). However, the time and the scientific capabilities during the Spanish flu outbreak and the Covid-19 is enormously different. Simple yet scientifically-backed tips such as the "social distancing and handwashing (20 seconds)" are the first line of defence in fighting this nasty virus. Being a strong advocate of "Science for a better community", *Evergreen* continues working hard and is pleased with the publication of the current edition. As some major journals, especially in the filed of medical science, physics and biology, now welcoming rapid contributions relating to the 'shock-wave' from Covid-19, *Evergreen* encourages our audience to consider various contributions concenrning Covid-19 in the perspective

of green science and techinology.

This edition includes two original articles (a natural and social science), a review article and articles from the selected papers from the 16th International Conference on Quality in Research (QiR). The first article is about the enhancement of the electrical conductivity and reduction in the lattice thermal conductivity for the enhanced thermoelectric element. The second original article touches upon the social science using the Game Theory for social dilemma situation while the last article reviews the utilization of groundnut shell as a reinforcement in the development of Aluminum-based composite for the reduction of environmental pollution. The second part of this publication includes interesting articles from QiR2019 (Please see a separate Editorial from the Guest Editors of QiR2019). This edition is balanced with articles from natural and social sciences which collectively aims a sustainable society.

The publication of *Evergreen* would not be possible without the contributions of the authors and reviewers. We acknowledge the continued support of the editorial and the management committee. We, in particular, would like to appreciate the intense effort of our secretary, Ms. Mieko INOUE, for her diligence. It is crucial to stay positive and hopeful in such an unprecedentedly difficult time. Social distancing and handwashing (20 seconds) are fundamental steps in containing Covid-19. *Evergreen* wish all our readers, authors, reviewers and everyone to stay safely fit and believes that we will eventually defeat this pandemic with the collective efforts.

Jun Tanimoto (Editor-in-Chief)
Kyaw Thu (Executive Editor)

Evergreen - Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy

Jun Tanimoto, Dr. Eng
Professor
Interdisciplinary Graduate School of Engineering Sciences,
Kyushu University
6-1 Kasuga-koen, Kasuga-shi, Fukuoka 816-8580, Japan

Kyaw Thu, Ph.D.
Associate Professor
Department of Advanced Environmental Science and Engineering,
Faculty of Engineering Sciences, Kyushu University
Kasuga-koen 6-1, Kasuga-shi, Fukuoka 816-8580, Japan

Editorial from the Guest Editors of QiR2019

The 16th International Conference on Quality in Research (QiR) was organized by the Faculty of Engineering, Universitas Indonesia in Padang, 22-24 July 2019. Twenty articles covering wide area of research topics in energy had been selected to feature in this edition. Some authors present their work toward environmental sustainability in the locality, such as the Coagulation-Flocculation Processes to Minimize Pollution of Tofu Wastewater, as well as efforts on analysis of organic waste in the UI campus and its surrounding. It is also worth noting that some articles cover interesting case studies involving public places such as the market, Jakarta old town, and public parks.

Meanwhile, the research topic of green operation proves to be still popular. An article discusses the exergy analysis of coal-fired power plants with ultra supercritical technology. Some other authors attempt to analyze the carbon emission in specific locations, such as the container port as well as the palm oil biodiesel production facility with different approaches.

The guest editors in this special edition would like to express the utmost appreciation to the reviewers who have made the most valuable contribution by reviewing, commenting and advising manuscripts. Special thanks go to the Green Asia Education Center of the Kyushu University as the publisher of the Evergreen journal for their cooperation and excellent support. For Evergreen Editor-in-chiefs, we would like to take this opportunity to thank you both for the fruitful collaboration in this special edition.

Additionally, we would also like to extend our appreciation to the strong support of the reviewers, authors, the editorial team and the management team for the successful publication of this issue. We would like to thank the contribution of our Evergreen Secretariat, Ms. Mieko Inoue, who coordinated the publication not only of the present issue but also all the previous prints.

Guest Editors

    Nasruddin, Ph.D.
    Professor
    Dept. of Mechanical Engineering, Faculty of Engineering Sciences,
    Universitas Indonesia, Kampus Baru UI Depok 16424
    Indonesia

    Yudan Whulanza, Ph.D.
    Dept. of Mechanical Engineering, Faculty of Engineering Sciences,
    Universitas Indonesia, Kampus Baru UI Depok 16424
    Indonesia

    Radon Dhelika, Ph.D.
    Dept. of Mechanical Engineering, Faculty of Engineering Sciences,
    Universitas Indonesia, Kampus Baru UI Depok 16424
    Indonesia