

## Editorial

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## Editorial

Things change pretty fast these days. Just over two years' time, more than six million people died of covid-19<sup>1)</sup>. The waiting time for the new cars becomes over three years for some models because of the semiconductor shortage and supply chain problems<sup>2)</sup>. People in the developed countries were suggested to have “fewer showers”<sup>3)</sup> and do “star jumps and cuddle pets”<sup>3)</sup> to tackle the energy crisis and looming inflation. Environmentalists advocate that the age of fossil fuel is over. Save the world: ditch your IC-engine car: get an electric one: Build a “climate-friendly” military<sup>4)</sup> The world was promised that renewable energy is ready and cheap. Now people have to take part in the zero-sum game of choosing “between eating and heating”<sup>3)</sup>. Situations can change pretty fast in the blink of an eye. The Oracle of Omaha, Warren E. Buffett, once said, “It’s only when the tide goes out that you learn who’s been swimming naked.”<sup>5)</sup> The energy tide has gone, and we learn that many countries have been swimming naked. European countries are now turning towards nuclear, and even the untouchable coal becomes suddenly a viable option<sup>6,7)</sup>. One can hardly assert that renewable is bad, or fossil fuel is sustainable. However, filtering out the noises (hype) and understanding of the reality is crucial. Another change is, as we all know, the warfair between Russia and Ukraine, which reminds us another hot-war used to be common in the 20<sup>th</sup> Century really taking place in days of the 21<sup>st</sup> Century, now. We have not experienced such a large-scale warefair for a long time. Ukraine conflict affects enegy and food supplys inevitably giving a huge impact on the world economy, which may entail a shodow of recession in front of us. Let alone, this is not a good ‘change’.

Changes apply to *EVERGREEN*, too. A few months ago, authors were concerned that *EVERGREEN* was not covered by the SCOPUS index in 2022. Some even decided to withdraw their manuscripts. Well, the tide has gone, and it turns out that *EVERGREEN* was not swimming naked; instead, wearing a high-end swimming suit.

Of course, *EVERGREEN* is covered by the SCOPUS index in 2022 and will be so for many more years. Not only that: *EVERGREEN* becomes a “Q2” Journal under four categories namely: “Environmental Science: Management, Monitoring, Policy and Law”, “Materials Science: Surfaces, Coatings and Films”, “Materials Science: Ceramics and Composites” and “Materials Science: Electronic, Optical and Magnetic Materials”<sup>8)</sup>. It is a huge upgrade! Many congratulations to the *EVERGREEN* community. We are further glad to see that papers published in *EVERGREEN* have been cited in several reputed journals such as “Scientific Reports”, “Environmental Research”, “Energy Conversion and Management”, “Separation and Purification Technology”, to name a few. *EVERGREEN* is now firing all cylinders. With a recently established online submission system, the article processing has never been more efficient and transparent. Authors can now track the status of their manuscripts and communicate with the editorial team more efficiently. Reviewers can submit their comments and rate the manuscripts online, while the system issues the reviewer’s certificates. First class facilities for an open access scientific publication with “zero article processing charge (zero APC)” like *EVERGREEN*, are going to set as a gold standard. While many authors are contributing with their innovative research works and the reviewers with their expert comments, *EVERGREEN* opines that this is the least it can do in effectively bridging the scientific communities and ultimately contributing to the societies.

The current edition is the second publication in 2022, which is *EVERGREEN*, Volume 9, Issue 02. In this edition, we have forty-three manuscripts. Out of them, sixteen articles are regular editions, while the rest are the selected papers from ICESTA2021 and QiR2021. All articles fall under the scopes of *EVERGREEN* such as material science, surface phenomena, thermal systems, tribology, biomedical engineering, environmental science, social science and management. Computer science and engineering are becoming more relevant to a sustainable society. Recent advancements in IoT, augmented reality (AR) and machine learning (ML) can greatly contribute to energy efficiency, productivity, and medical science. We are glad to see a few manuscripts on the IT related research. *EVERGREEN* welcomes contributions from the computer science researchers. On the other hand, special issues

from conferences are considered as one of the main focuses of *EVERGREEN*. We are very pleased to publish the selected papers from reputed conferences. *EVERGREEN* welcomes the special issue proposals from quality conferences. We opine that the selected papers from ICESTA2021 and QiR2021 are interesting and touch upon the latest developments in the respective fields.

The publication of this edition would be impossible without the contributions of the authors who are willing to publish their works with *EVERGREEN*. We understand the exasperation with the preparation of the manuscript strictly following the template. *EVERGREEN* relies on the authors for formatting the manuscript since we do not have a software. Another aspect is that *EVERGREEN* adopts a single-blind peer review system, and the contribution of the reviewers is indispensable. Many authors desire to get their papers published, while there are plenty of journals and getting the review service is becoming more and more difficult. *EVERGREEN* hopes that our Author-Reviewer ecosystem is sustainable, and we seek for the support of the authors with the review. We would like to acknowledge the support of the editorial and management team. We further would like to record our appreciation to *EVERGREEN* Secretariat for her contributions. *EVERGREEN* wishes positive changes (developments) to all.

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## Editorial from the Guest Editors of ICESTA 2021

In this special issue, we would like to present the first collaboration between EVERGREEN Journal with the International Conference on Energy Storage Technology and Applications (ICESTA-2021). The ICESTA-2021 is organized by the Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia, and held on October 27, 2021. It was conducted virtually via Zoom Meeting due to the Covid-19 pandemic situation.

We are focusing on the energy storage technologies area, including material synthesizing, characterization, energy storage system, and simulation for energy storage application. This special issue is a compilation from the selected paper of ICESTA-2021 after peer-reviewing by two expert referees. We accepted seven articles for this special issue which covered the conference's topics. They are a synthesis of activated carbon from the waste tyre as fuel cell catalyst support, the release of hydrogen from NaBH<sub>4</sub> with Ni-Cu-B/Hydroxyapatite as The Catalyst, Synthesis, and Characterization of NMC622 Cathode Material Modified by Various Cheap and Abundant Transition Metals, Synthesis and Characterization of NMC 811 by Coprecipitation, Synthesis and Characterization of NMC 811 by Coprecipitation, Highly Porosity and Thermally Stable poly(vinylidene fluoride) Separators: Effects of Solvent and Colloidal SiO<sub>2</sub> Concentration, Heat Generated on Lithium Ferro Phosphate Battery with Air Cooler Battery Thermal Management System, Experimental and Simulation Investigation on Single-Stage Savonius Turbine: Influence of Inlet-Outlet Ratio Using a Modified Blade Shaped to Improve Turbine Performance.

The ICESTA 2021 committee and the Guest Editors want to express our deep gratitude to the Green Asia Education Center, Kyushu University as a publisher of EVERGREEN Journal. Furthermore, we are grateful to the Chief Editor and the Editorial team of EVERGREEN Journal for this opportunity to contribute to and publish our conferences in the special issue of EVERGREEN-ICESTA 2021. Lastly, we would also like to thank all the reviewers for contributing their time during the peer-review process.

With our warmest regards,

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## **Editorial from the Guest Editors of the The 17<sup>th</sup> QiR International Conference**

The 17<sup>th</sup> QiR (Quality in Research) International Conference is an biannual conference organized by the Faculty of Engineering, Universitas Indonesia. This moment, during the pandemic, QiR International Conference aims to be an international meeting to discuss on the role of the science and technology in the 21<sup>st</sup> Century. The conference will focus on Resilience and Adaptability for a Post-Pandemic World: Exploring Technology for Our Green Environment. The main objective of the Conference is to open a worldwide discussion on the current role of technology in the academic and scientific areas and on their importance to boost a more responsible society post pandemic.

The 17<sup>th</sup> QiR 2021 has been succesfully conducted in online mode, due to pandemic, on 13<sup>th</sup> -15<sup>th</sup> October 2021 in conjunction with The 6th International Tropical Renewable Energy Conference 2021 (I-Trec 2021) and The 2nd AUN-SCUD International Conference (CAIC SIUD).

The conference covers various topics in engineering, science, and management which focuses on Resilience and Adaptability for a Post-Pandemic World: Exploring Technology for Our Green Environment. 16 keynoted speakers from around the world and around 350 presenters have attended The 17th QiR International Conference. We have long cooperation and collaboration with Evergreen which publishes high-quality manuscripts. In this term, we publish selected 20 articles on Evergreen, which discuss various issues including sustainable engineering design, local culture architecture smart-city, green technology, and information technology related issues.

All of the 17th QiR (Quality in Research) International Conference committee and guest editors in this special issue hope that the novelty and breakthrough of these published articles can contribute to science and technology development and boost a more responsible society post-pandemic. We express gratitude to all members for their very nice cooperation and collaboration in this organized The 17th QiR (Quality in Research) International Conference. Editors also deeply thank all reviewers for their positive comments and advice in contributing to the quality of published articles. Finally, special gratitude was given to the Chief Editor and the Editorial team of EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy which gives the opportunity to publish the second batch special edition of The 17th QiR (Quality in Research) International Conference 2021 articles on the special issue of the Evergreen Journal.

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