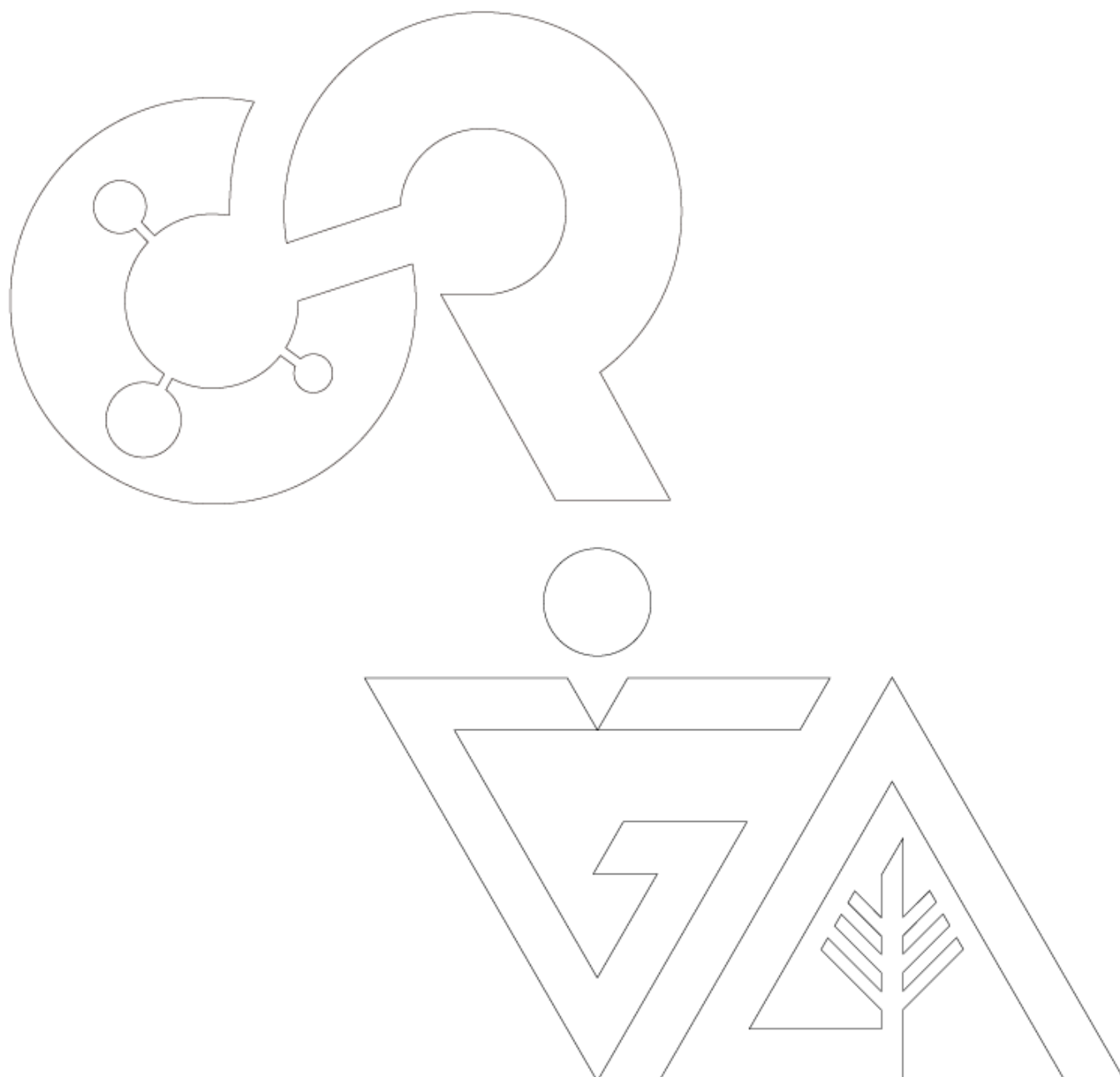

EVERGREEN

Volume.07

Issue. 04 December 2020

Joint Journal of
Novel Carbon Resource Sciences & Green Asia Strategy



Editorial Board for
Evergreen – Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy

Editor-in-Chief

Jun Tanimoto

Executive Editor

Kyaw Thu

Subject Editors

Andrew Mark Spring, Osama Eljamal, Hiroshi Furuno, Michitaka Ohtaki, Jin Miyawaki

Kiichi Hamamoto, Naoji Yamamoto

Regional Editors

Nasruddin, Agung Tri Wijayanta, Muhammad Sultan

Secretary

Mieko Inoue

Honorary Advisor

Bidyut Baran Saha

Editorial Board

Akira Harata, Aya Hagishima, Kazuhide Ito, Seigi Mizuno

Evergreen – Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy
Volume 7 Issue 4 (December 2020)

Published by

Transdisciplinary Research and Education Center for Green Technologies, Kyushu University

6-1 Kasuga-koen, Kasuga, Fukuoka 816-8580 Japan

Tel: +81-92-583-7823

Fax: +81-92-583-8909

Journal Website: http://www.tj.kyushu-u.ac.jp/leading/en/c_publication/evergreen.php

E-mail: evergreen@ga.kyushu-u.ac.jp

Copyright: 2020 by

Transdisciplinary Research and Education Center for Green Technologies, Kyushu University

All rights reserved. ISSN: 2189-0420 (Print) ISSN: 2432-5953 (Online)

Evergreen

Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy

Volume 07, Issue 04, December 2020

CONTENTS

Paras Bhatnagar, Shivendra Kaura, Sanjeev Rajan Predictive Models and Analysis of Peak and Flatten Curve Values of CoVID-19 Cases in India	..... 458
Gunawan Prayitno, Annisa Nurul Hakim, Christia Meidiana Factors Influencing the Willingness to Join CBO Biogas Self-Help Group in Mulyorejo Urban village and Karangnongko Village in Malang, Indonesia	..... 468
M. M. Takeyeldein, Tholudin Mat Lazim, Iskandar Shah Ishak, Nik Mohd, N.A.R, and Essam Abubakr Ali Wind Lens Performance Investigation at Low Wind Speed	..... 481
Dyah Arum Wulandari, Muhammad Akmal, Yohanes Gunawan, Nasruddin Cooling Improvement of the IT Rack by Layout Rearrangement of the A2 Class Data Center Room: A Simulation Study	..... 489
Shilpa Choudhary, Abhishek Sharma, Shradha Gupta, Hemant Purohit, Smriti Sachan Use of RSM Technology for the Optimization of Received Signal Strength for LTE Signals Under the Influence of Varying Atmospheric Conditions	..... 500
Shailendra Singh Chauhan, Avadhesh Kumar Khare Kinematic Analysis of the ABB IRB 1520 Industrial Robot Using RoboAnalyz er Software	..... 510
Akash Gupta, Harish Kumar, Leeladhar Nagdeve, Pawan Kumar Arora EDM Parametric Study of Composite Materials: A Review	..... 519
Sarower Kabir, Faiz Ahmad, Khurshid Malik, Norlin Nosbi, Laurent GUILLAUMAT Effect of Heat Resistant Coating on the Drilled Hole Quality of Hybrid Fiber Reinforced Epoxy Composite	..... 530
Muhammad Razlan Zakaria, Mohd Firdaus Omar, Hazizan Md Akil, Mohd Mustafa Al Bakri Abdullah Study of Carbon Nanotubes Stability in Different Types of Solvents for Electro spray Deposition Method	..... 538
A.S. Pamitran, S. Novianto, N. Mohd-Ghazali, R.A Koestoer Flow Pattern of Two-phase Flow Boiling with Heat Transfer and Pressure Drop Using Natural Refrigerant (Propane) in Microchannel★	..... 544

Fayza Yulia, Shavira Marsya, Yohanes Bobby, Nasruddin, and A Zulys Design and Preparation of Succinic Acid-Based Metal-Organic Frameworks for CO₂ Adsorption Technology★	..... 549
Nasruddin A. Abdullah, Rachmat Rahardian, Imansyah Ibnu Hakim, Nandy Putra, Raldi A. Koestoer Non-Sweep Gas Pyrolysis with Vapor Heater using “Shorea Pinanga” as a feedstock★	..... 555
Arif Rahman, Nining Betawati Prihantini, Nasruddin Biomass Production and Synthesis of Biodiesel from Microalgae <i>Synechococcus</i> HS-9 (Cyanobacteria) Cultivated Using Bubble Column Photobioreactors★	..... 564
Hafidho Ilham Muhammad, Arif Rahman, Nining Betawati Prihantini, Deendarlianto, Nasruddin The Application of Poly-dispersed Flow on Rectangular Airlift Photobioreactor Mixing Performance★	..... 571
Yanuar, Ibadurrahman, A. S. Pamitran ¹ , Gunawan, Sealtial Mau Experimental Investigation On The Spiral Pipe Performance For Particle-Laden Liquids★	..... 580
CahyoSWibowo, Fransiskus Adian, YuliantoSNugroho, Bambang Sugiarto The Optimization of The Relationship between Octane Number of Gasoline-Ethanol Blend Fuels in Various Settings of The Engine Control Module★	..... 587
Nining Betawati Prihantini, Nurul Rakhmayanti, Sri Handayani, Wellyzar Sjamsuridzal, Wisnu Wardhana and Nasruddin Biomass Production of Indonesian Indigenous <i>Leptolyngbya</i> Strain on NPK Fertilizer Medium and its Potential as a Source of Biofuel★	..... 593
Harinaldi, Muhammad Denni Kesuma, Ridho Irwansyah, James Julian, Adhika Satyadharna Flow Control with Multi-DBD Plasma Actuator on a Delta Wing★	..... 602
J.A. Hidayat, Bambang Sugiarto Characteristic, Structure, and Morphology of Carbon Deposit From Biodiesel Blend★	..... 609
Muswar Muslim, Muhammad Idrus Alhamid, Nasruddin, Budi Ismoyo Analysis of the Scroll Compressor Changing into an Expander for Small Scale Power Plants Using an Organic Rankine Cycle System★	..... 615
Ibnu Roihan, Kynan Tjandaputra A., Eko A. Setiawan, Raldi A. Koestoer Installing and Testing the Grashof Portable Incubator Powered Using the Solar Box "Be-Care" for Remote Areas without Electricity★	..... 621

★ International Meeting on Advances in Thermofluids (IMAT2019)