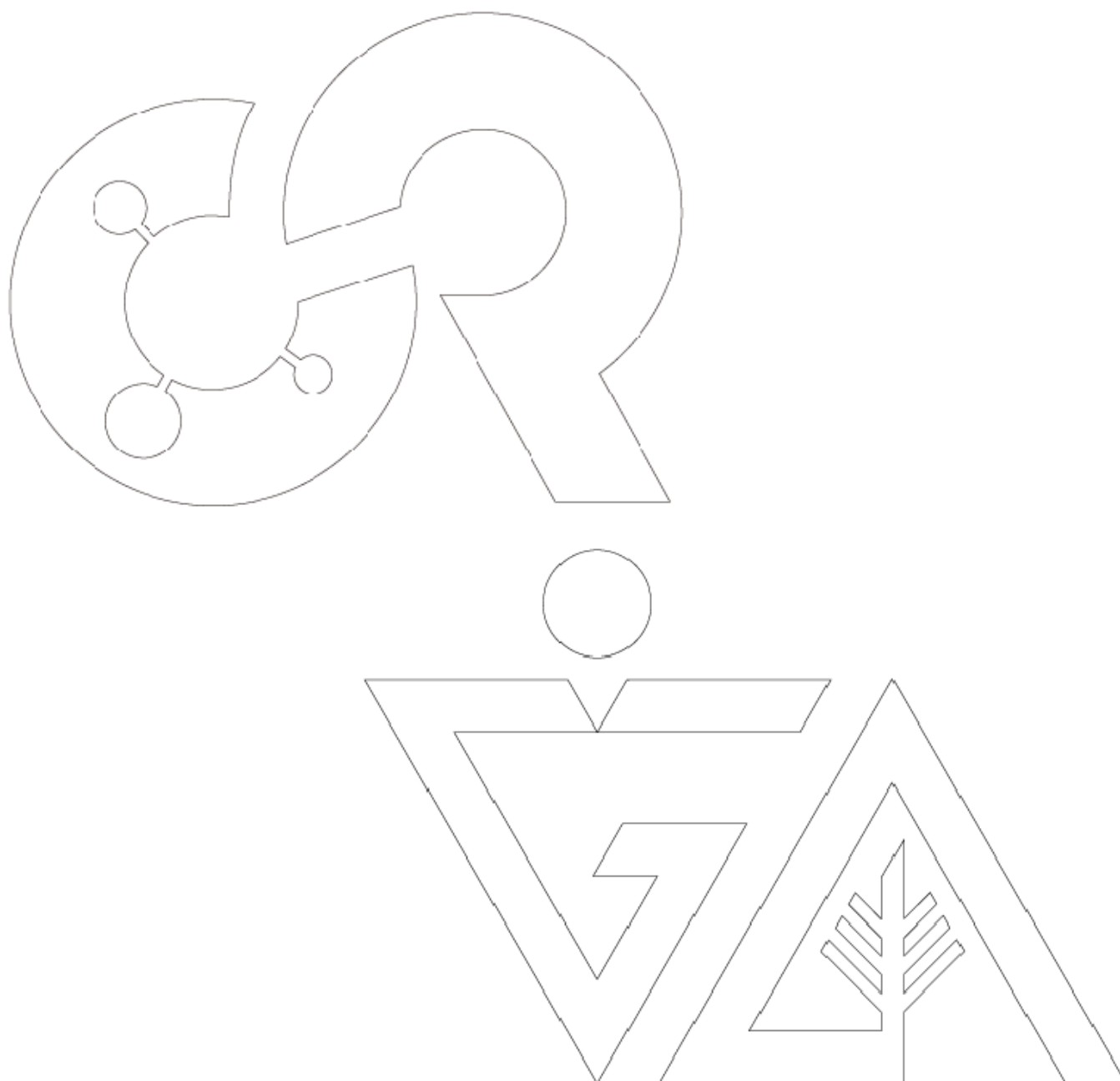

EVERGREEN

Volume.07

Issue. 01 March 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 1 (March 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 01, March 2020

CONTENTS

Shinji Hirata, Michitaka Ohtaki Simultaneous Enhancement in the Electrical Conductivity and Reduction in the Lattice Thermal Conductivity Leading to Enhanced Thermoelectric ZT Realized by Incorporation of Metallic Nanoparticles into Oxide Matrix	1
MD. Ahsan Habib, K M Ariful Kabir, Jun Tanimoto “Do humans play according to the game theory when facing the social dilemma situation?” A survey study.	7
Shashi Prakash Dwivedi, Manish Maurya, Nagendra Kumar Maurya, Ashish Kumar Srivastava, Satpal Sharma, Ambuj Saxena Utilization of Groundnut Shell as Reinforcement in Development of Aluminum Based Composite to Reduce Environment Pollution: a review	15
Euis Djubaedah, Dyah Arum Wulandari, Nasruddin, Yuni K. Krisnandi Surface Area Modification of Natural Zeolite Through NaCl Counterbalanced Treatment to Apply in Adsorption Heat Storage System ★	26
Abdul Wahid, Dwi Ratna Mustafida, Yuli Amalia Husnil Exergy Analysis of Coal-Fired Power Plants in Ultra Supercritical Technology versus Integrated Gasification Combined Cycle ★	32
Setia Abikusna, Bambang Sugiarto, Iqbal Yamin Utilization Analysis of Bioethanol (Low Grade) and Oxygenated Additive to COV and Gas Emissions on SI Engine ★	43
Nunik Madyaningarum, Mohammed Ali Berawi, Yarianto Sugeng Budi Susilo Strategic Project Planning Solution Model in The Radioactive Minerals Processing Pilot Plant Construction ★	51
Batara Triargi Sabarudin, Sutrasno Kartohardjono The Combination of Coagulation-Flocculation and Membrane Processes to Minimize Pollution of Tofu Wastewater ★	56
Kayyis Ibadurrohman, Irma Gusniani, Djoko M Hartono, Nyoman Suwartha The Potential Analysis of Food Waste Management using Bioconversion of The Organic Waste by The Black Soldier Fly (<i>Hermetia illucens</i>) Larvae in The Cafeteria of The Faculty of Engineering, Universitas Indonesia★	61
Sekar Narindrasani, Achmad Hery Fuad The Role of Captivation and Sensation in Pleasurable Experience to Enhance Wayfinding Process ★	67

Hasna Nurmaraya, Yulia Nurliani Lukito A Place to Remember: The Erasure of Pasar Johar's Collective Memory ★	..... 72
Fachransjah Aliunir, Teuku Yuri M. Zagloel, Romadhani Ardi Discrete-Event Simulation and Optimization of Spare Parts Inventory and Preventive Maintenance Integration Model Considering Cooling Down and Machine Dismantling Time Factor ★	..... 79
Ario Sunar Baskoro, Mohammad Azwar Amat, Rahadian Dwi Putra, Agus Widyianto, Yala Abrara Investigation of Temperature History, Porosity and Fracture Mode on AA1100 Using the Controlled Intermittent Wire Feeder Method ★	..... 86
Muhamad Sahlan, Muryanto, Heri Hermansyah, Anondho Wijarnako, Misri Gozan, Kenny Lischer, Ali Ahmudi, Paksi Pujianto Ethanol Production by Encapsulated <i>Rhizopus oryzae</i> from Oil Palm Empty Fruit Bunch ★	..... 92
Muhammad Hanzalah Huzaifi, Muhammad Arif Budiyanto, Simon Juanda Sirait Study on the Carbon Emission Evaluation in a Container Port Based on Energy Consumption Data ★	..... 97
Arnau Kuncoro, Widodo Wahyu Purwanto Analysis of Energy-Water Nexus Palm Oil Biodiesel Production in Riau Using Life Cycle Assessment and Water Footprint Methods ★	..... 104
Tuesta Refaningati, Nahry, Ellen S.W. Tangkudung, Andyka Kusuma Analysis of Characteristics and Efficiency of Smart Locker System (Case Study: Jabodetabek) ★	..... 111
Muhamad Sahlan, Davita Kristabel Mandala, Diah Kartika Pratami, Robiatul Adawiyah, Anondho Wijarnako, Kenny Lischer, Ahlan Fauzi Exploration of the Antifungal Potential of Indonesian Propolis from <i>Tetragonula biroi</i> Bee on <i>Candida sp.</i> and <i>Cryptococcus neoformans</i> ★	..... 118
Armia Utami Putri, Evawani Ellisa Reclaiming Residual Spaces in Urban Life: The Act of Occupancy Beneath Pedestrian Bridges in Jakarta ★	..... 126
Syifa Fadhila, Yulia Nurliani Lukito Surveillance and Architecture, Analyzing the Idea of Eyes on the Street ★	..... 132
Achmad Soerio Hutomo, Achmad Hery Fuad Engagement and Well-Being in Public Space. Case Study: Suropati Park Jakarta ★	..... 138
Rully Andhika, Yusuf Latief Conceptual Framework of Development of Quality Culture in Indonesian Construction Company ★	..... 144
A S Pamitran, S Novianto, A S Santoso Intermittent Flow Pattern on Two Phase Flow Boiling with Horizontal Microchannel ★	..... 150