

**LEMBAR REKAPITULASI
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: JURNAL ILMIAH**

Judul Karya Ilmiah (Artikel) : Study of environmental carrying capacity in Pemalang Regency
 Jumlah Penulis : 3 Orang
 Status Pengusul : Penulis Pendamping (Kedua)
 Penulis Prosiding : A H Kahfi, **Budi Prasetyo Samadikun**, A. Sarminingsih

a. Judul Prosiding : 4th International Conference on Environment, Sustainability Issues, and Community Development 2022, INCRID 2022
 b. doi/URL : [10.1088/1755-1315/896/1/012001](https://doi.org/10.1088/1755-1315/896/1/012001)
 c. Tahun Terbit : 2022
 d. Penerbit : IOP Publishing Ltd
 e. Jumlah Halaman : 9

Hasil Rekapitulasi Peer Review

No	Komponen	Reviewer 1	Reviewer 2	Rata-rata / Kesimpulan
1	Nilai	5,7	5,9	5,8
2	Kategori Publikasi	Prosiding Ilmiah Internasional terindeks Scopus	Prosiding Ilmiah Internasional terindeks Scopus	Prosiding Ilmiah Internasional terindeks Scopus

Semarang, Mei 2023

Reviewer 1



Nama : Prof. Dr. Ir. Syafrudin, CES, MT
 NIP : 195811071988031001
 Jabatan Fungsional: Guru Besar
 Unit Kerja : Dept. Teknik Lingkungan UNDIP

Reviewer 2



Nama : Prof. Ir. Mochamad Arief Budihardjo, S.T., M.Eng. Sc, Env.Eng, Ph.D., IPM
 NIP : 197409302001121002
 Jabatan Fungsional: Profesor
 Unit Kerja : Dept. Teknik Lingkungan UNDIP

**LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
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Kategori Publikasi Jurnal Ilmiah : **Prosiding Ilmiah Internasional terindeks Scopus**
 Prosiding Ilmiah Internasional
 Prosiding Ilmiah Nasional.

Hasil Penilaian *Peer Review*

Komponen Yang Dinilai	Nilai Maksimal Prosiding			Nilai Akhir Yang Diperoleh
	Internasional terindeks Scopus	Internasional	Nasional	
a. Kelengkapan dan kesesuaian unsur isi prosiding (10%)	3			3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9			8,5
c. Kecukupan dan kemutakhiran data/ informasi dan metodologi (30%)	9			8
d. Kelengkapan unsur dan kualitas penerbit (30%)	9			9
Total = (100 %)	30			28,5
Kontribusi Pengusul (Penulis Pendamping dari 3 Penulis) (0,4/2) x (28,5)				5,7
<p>1. Tentang kelengkapan dan kesesuaian unsur Kelengkapan dan kesesuaian unsur cukup baik mulai dari pendahuluan, kajian pustaka, alat dan metode, hasil dan pembahasan, kesimpulan serta ucapan terima kasih yang memiliki nilai koherensi cukup jelas.</p> <p>2. Tentang ruang lingkup dan kedalaman pembahasan Isi artikel berkaitan dengan Daya Dukung Lingkungan dalam bidang ketersediaan sumber daya air dan lahan serta ketahanan terhadap proyeksi pertumbuhan penduduk. Metode dan langkah yang dilakukan cukup jelas. Data – data yang ditampilkan cukup banyak, jelas, dan detail, serta didukung dengan kelengkapan grafik, tabel, dan gambar guna memperjelas bahasan.</p> <p>3. Kecukupan dan kemutakhiran data serta metodologi Artikel ini memiliki nilai kebaruan yang cukup baik ditunjukkan dengan penggunaan 18 referensi terbaru dalam kurun waktu 10 tahun terakhir. Originalitas paper cukup baik ditunjukkan dengan Turnitis Similarity index 5%, didukung 1% publikasi, 4% internet sources, dan 2% student papers.</p> <p>4. Kelengkapan unsur kualitas penerbit Artikel diterbitkan dalam IOP Conference Series: Earth and Environmental Science 2022 yang terindeks scopus, Prosiding Ilmiah Internasional terindeks Scopus, ISSN 1755-1315, diterbitkan oleh IOP Publishing, 2022.</p>				

Semarang, Mei 2023
 Reviewer 1

Nama : Prof. Dr. Ir. Syafrudin, CES., M.T., IPM.
 NIP : 19581107198803001
 Jabatan Fungsional : Guru Besar
 Unit Kerja : Dept. Teknik Lingkungan UNDIP

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 Prosiding Ilmiah Nasional .

Hasil Penilaian *Peer Review*

Komponen Yang Dinilai	Nilai Maksimal Prosiding			Nilai Akhir Yang Diperoleh
	Internasional terindeks Scopus	Internasional	Nasional	
a. Kelengkapan dan kesesuaian unsur isi prosiding (10%)	3			3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9			8,5
c. Kecukupan dan kemutakhiran data/ informasi dan metodologi (30%)	9			9
d. Kelengkapan unsur dan kualitas penerbit (30%)	9			9
Total = (100 %)	30			29,5
Kontribusi Pengusul (Penulis Pendamping dari 3 Penulis) (0,4/2) x (29,5)				5,9
<p>5. Tentang kelengkapan dan kesesuaian unsur Kelengkapan dan kesesuaian unsur sudah lengkap sesuai template pada umumnya pada jurnal internasional terdiri dari judul, abstrak, pendahuluan, metode, pembahasan, kesimpulan, dan referensi. Artikel telah sesuai bidang ilmu pengusul/anggota penulis.</p> <p>6. Tentang ruang lingkup dan kedalaman pembahasan Ruang lingkup artikel sesuai dengan bidang Teknik Lingkungan berkaitan Daya Dukung Lingkungan dimana terhadap sektor sumber daya air mengalami defisit dan pada sekor ketersediaan lahan ditemukan kondisi. Data – data yang ditampilkan cukup jelas dan detail, yang dilengkapi dengan grafik dan gambar untuk memperjelas bahasan.</p> <p>7. Kecukupan dan kemutakhiran data serta metodologi Metodologi artikel sudah cukup baik dan mutakhir, kebaharuan artikel juga baik dengan Turnitin similarity index 9% yang didukung persentase internet source, publikasi dan student paper yang memenuhi syarat maksimal Turnitin.</p> <p>8. Kelengkapan unsur kualitas penerbit Artikel diterbitkan dalam IOP Conference Series: Earth and Environmental Science 2022 yang terindek scopus, Prosiding Ilmiah Internasional terindeks Scopus, ISSN 1755-1315, diterbitkan oleh IOP Publishing, 2022.</p>				

Semarang, Mei 2023
 Reviewer 2

Nama : Prof. Ir. Mochamad Arief Budihardjo S.T., M.Eng.Sc, Env.Eng, Ph.D., IPM., ASEAN Eng.
 NIP : 197409302001121002
 Jabatan Fungsional : Guru Besar
 Unit Kerja : Dept. Teknik Lingkungan UNDIP

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**THE 4th INTERNATIONAL CONFERENCE ON ENVIRONMENT,
SUSTAINABILITY ISSUES AND COMMUNITY DEVELOPMENT (INCRID)**

Environmental Engineering Diponegoro University,
Jl. Prof. H. Soedarto, S.H. – Tembalang, Semarang, Indonesia
Telp. 081229323709, 085700924611
e-mail : incrid@live.undip.ac.id ; web : incrid.lingkungan.ft.undip.ac.id

On behalf of the committee, I would like to express my sincere gratitude to all colleagues, professors, lecturers, researchers, and welcome you all to the 4th INCRID 2022 “Supporting the Realization of Zero Carbon Environment by Implementing Circular Economy”. This conference provides a great opportunity for researchers, students, industries, and governments to communicate their research results on the fundamentals and application of sustainability issues and community development.

INCRID 2022 was held on 1 September 2022 in the online system and the theater room 5th floor of the Faculty of Engineering Diponegoro University, Semarang (hybrid). Keynote and invited speakers were Prof. Ramaraj Boopathy Nicholls State University, USA, Dr. Premakumara Jagath (Institute for Global Environmental Strategies, Japan), Prof. Pau Loke Show (University of Nottingham Malaysia), Prof. Sudharto P. Hadi, MES, Ph.D. (Universitas Diponegoro, Indonesia), Prof. Ir. Tjandra Setiadi, M.Eng., Ph.D. (Institut Teknologi Bandung, Indonesia), Prof. Dr. Soraya Heuss-Aßbichler (Ludwig-Maximilians-Universität München, Germany).

At this conference we have contributions from seven countries. We received about 118 submissions of papers for presentation at this meeting. Each paper was evaluated by a reviewer and about 85 of these are accepted for presentation, divided into 12 parallel presentation sessions. The topics of this conference include Environmental, Health and safety; environmental science, technology, and education; Green infrastructure; and Energy Conservation and Efficiency. It is my hope that the 4th INCRID 2022 will be able to achieve its objective of creating an international forum for researchers, students, industries, and governments to communicate their research results, to share and exchange ideas on the fundamentals and application of environmental, sustainability issues, and community development.

By bringing up this theme, the Department of Environmental Engineering and the INCRID 2022 Committee want to support the efforts of the World to achieve the goal of emission reduction and Net Zero Emission (Carbon neutrality). Furthermore, this activity is expected to support efforts to implement the concept of the circular economy.

Last but not least, my deepest gratitude goes to the Advisory Board, Organizing Committee, International Scientific Committee, institutions, companies, and volunteers who have directly and indirectly supported the success of this conference. Although we try our best to be professional, on behalf of the committee, we request you to accept our sincere apologies for any inconvenience.

Dr. Yustina Metanoia Pusparizkita, S.T., M.T.
Chairman of the 4th INCRID 2022



NAME OF THE EVENT

The 4th International Conference on Environment, Sustainability Issues and Community
Development 2022 (4th INCRID 2022)

THEME

“Supporting the Realization of Zero Carbon Environment by Implementing Circular
Economy.”

The topics of the conference are as follows.

A. Environment, Health, & Safety

- Environment, health, and safety system
- Environmental modeling and computation
- Risk analysis

B. Environmental Science, Technology, and Education

- Waste management and treatment
- Water and wastewater engineering
- Environmental education

C. Green Infrastructure

- Life cycle assessment
- Green building and technology option

D. Energy Conservation and Efficiency

- Clean and renewable energy
- Climate change and global warming

OBJECTIVES OF THE EVENT

The objections of INCRID 2022 are as follows:

- To create an international forum for researchers, students, industries, and governments to communicate their research results on the fundamentals and application of environment, sustainability issues, and community development.
- To share and exchange ideas, thoughts, and discussions on all aspects of the environment, sustainability issues, and community development.
- Facilitate the formation of networks among participants to enhance the quality and benefits of research and development.

PARTICIPANTS

This international conference is open to academicians, researchers, students, and professionals worldwide.

SPEAKERS

Keynote Speakers

No	Name	Institution and Country
1	Prof. Ir. Tjandra Setiadi, M.Eng., Ph.D	Institut Teknologi Bandung, Indonesia
2	Prof. Sudharto P. Hadi, MES, Ph.D	Universitas Diponegoro, Indonesia
3	Prof. Dr. Soraya Heuss-Aßbichler	Ludwig-Maximilians-Universität München, Germany
4	Prof. Pau Loke Show	University of Nottingham, Malaysia
5	Dr. Ramaraj Boopathy	Nicholls State University, USA
6	Dr. Premakumara Jagath	Institute for Global Environmental Strategies, Japan

SCHEDULE

1st Round Submission

Deadline for Abstract Submission	7 June 2022
Notification of Abstract Submission	9 June 2022
Deadline for Full Paper Submission	23 June 2022
Review Result	1 July 2022
Revised Paper Submission	9 July 2022
Deadline for Registration and Payment	23 June 2022

2nd Round Submission

Deadline for Abstract Submission	10 July 2022
Notification of Abstract Submission	12 July 2022
Deadline for Full-Paper Submission	26 July 2022
Review Result	2 August 2022
Revised Paper Submission	10 August 2022
Deadline for Registration and Payment	26 July 2022

Presentation File Submission

(28th August 2022)

Conference Day

(1st September 2022)

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4. M. Arief Budihardjo, S.T., M. Eng.Sc., Ph.D. (Universitas Diponegoro, Indonesia)
5. Dr. Badrus Zaman, S.T., M.T. (Universitas Diponegoro, Indonesia)

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3. Ir. Nurandani Hardyanti, S.T., M.T., IPM (Secretary)
4. Ir. Pertiwi Andarani, S.T., M.T., M.Eng., Ph.D., IPP (Publication and Indexing)

Table of contents

Volume 1098

2022

[◀ Previous issue](#) [Next issue ▶](#)

The 4th International Conference on Environment, Sustainability Issues, and Community Development (INCRID) 01/09/2022 - 01/09/2022 Semarang, Indonesia

Accepted papers received: 27 September 2022

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011002

[Peer Review Statement](#)

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Environment, Health and Safety

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012001

[Environmental management system: The internal and external impact of ISO 14001 implementation on the manufacturing companies](#)

A K Widiatami, L K Pitaloka and A Nurkhin

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012060

Environmental disclosure and its determinants

I F S Wahyuningrum, M I Amal, S Oktavilia, A Setyadharma, M Khafid and M Lina

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012061

Rapid cultivation of aerobic granular sludge in laboratory scale sequencing batch reactor

Nur Novilina Arifianingsih, Andrianto Ansari and Pei-Hsun Wu

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OPEN ACCESS

012062

The Effect of Biofloculants and Cationic Inducers Concentration on Harvesting *Chlorella vulgaris* Biomass Using Fungal *Aspergillus niger* Bioflocculation Method

L Isaroyati and H Hadiyanto

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OPEN ACCESS

012063

Characteristics of Banana Leaves as Gaseous Biosorbent

Rahmatia Sarah Wahyudi, Haryono Setiyo Huboyo, Endro Sutrisno and Badrus Zaman

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OPEN ACCESS

012064

The Seafarer's Level of Understanding on Ballast Water Management Convention

Iksiroh el Husna, Dian Wahdiana, Nasri, Anissofiah Azise Wijinurhayati and Widya Putri

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012065

Study of environmental carrying capacity in Pematang Regency

A H Kahfi, B P Samadikun and A Sarminingsih

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012006

Application of Hazard and Operability Study Methods (HAZOP) to asses and control hazard risk in spinning department using at textile industrial

Novie Susanto, Faradhina Azzahra and Alldo Haswandana Putra

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012007

Integrating fuzzy logic and house risk method for operational risk management in automotive industry

Nia Budi Puspitasari and Muhammad Raihananda Ashafy Yuwono

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OPEN ACCESS

012008

Define indicators for health protocol assessment at Prambanan Temple Tourism Park Yogyakarta

Ratna Purwaningsih, Linda Anggita Leony, Ekawati, Ary Arvianto and Parwa Oryzanti

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012009

New risk assessment and prioritization failure modes based approach in a gas turbine system

A Chakhrit, M Bougofa, I H M Guetarni, N Nehal, A Bouafia, F Z Ghazli, R Kharzi and M Chennoufi

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012010

The effectiveness of EM4 and Local Micro-organisms (LOM) Activators in Organic Waste Processing in Brikama Market West Coast Region, The Gambia

Babucarr Jassey, Syafrudin, Badrus Zaman, Kemo Ceesay, Ibrahim Touray, Juma Ngum and Habibi Prakoso

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012011

Environmental impact assessment Approach to Dynamic Safety Evaluation : A Liquefied Natural Gas Plant Case Study

Abderraouf Bouafia, Mohammed Bougofa, Bilal Zeroauli, Rabeh Kharzi, Ammar Chakhrit, Amin Baziz, Salah Aberkane, Mohamed Salah Medjram and Ahmed Mebarki

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New risk assessment and prioritization failure modes based approach in a gas turbine system

A Chakhrit^{1*}, M Bougofa², I H M Guetarni¹, N Nehal¹, A Bouafia³, F Z Ghazli¹, R Kharzi², and M Chennoufi¹

¹Institut de Maintenance et de Sécurité Industrielle, Laboratoire de l'Ingénierie de la Sécurité Industrielle et du Développement Durable, Université Mohamed Ben Ahmed Oran 2, Sécurité Industrielle et Environnement, Oran, **Algérie**

²Laboratory of Transportation Engineering and Environment, Frères Mentouri Constantine 1 University, BP 325 Constantine, 25017, Algeria.

³Chemical Engineering and Environment Laboratory, Skikda University, Skikda, 21000, Algeria

*chakhritammar@gmail.com

The effectiveness of EM4 and Local Micro-organisms (LOM) Activators in Organic Waste Processing in Brikama Market West Coast Region, The Gambia

Babucarr Jasse^{1,2*}, Syafrudin¹, Badrus Zaman¹, Kemo Ceesay², Ibrahim Touray², Juma Ngum², and Habibi Prakoso¹

¹ Department of Environmental Engineering, Diponegoro University, Semarang **Indonesia**

² Public Health Directorate, Department of Public Health Services, Quadrangle, Banjul, Ministry of Health, **The Gambia.**

*baxjas@gmail.com, baxjas@alumni.undip.ac.id