

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

Judul Karya Ilmiah (Artikel) : Evaluating Coconut Fiber and Fly Ash Composites for Use in Landfill Retention Layers

Jumlah Penulis : 3 Orang

Status Pengusul : Penulis Pendamping (Ketiga)

Penulis Jurnal Ilmiah : AS Puspita, M A Budihardjo, **Budi Prasetyo Samadikun**

Identitas Jurnal Ilmiah : a. Nama Jurnal : Global NEST Journal

b. Nomor/Volume : Nomor 4/Volume 25

c. Edisi (bulan/tahun) : Maret 2023

d. Penerbit : Global NEST

e. Jumlah halaman : 7

f. Jurnal URL : [https://journal.gnest.org/publication/gnest\\_04554](https://journal.gnest.org/publication/gnest_04554)

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No	Komponen	Reviewer 1	Reviewer 2	Rata-rata / Kesimpulan
1	Nilai	7,6	7,7	7,65
2	Kategori Publikasi	Jurnal Ilmiah Internasional Bereputasi	Jurnal Ilmiah Internasional Bereputasi	Jurnal Ilmiah Internasional Bereputasi

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

Reviewer 2



Nama : Dr. Ir. Badrus Zaman, S.T., M.T., IPM.

NIP : 197208302000031001

Jabatan Fungsional: Guru Besar

Unit Kerja : Dept. Teknik Lingkungan UNDIP

**LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
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 Penulis Jurnal Ilmiah : AS Puspita, M A Budihardjo, **Budi Prasetyo Samadikun.**  
 Identitas Jurnal Ilmiah : a. Nama Jurnal : Global NEST Journal  
 b. ISSN : p-1790-7632, e-2241-777X  
 c. Nomor/Volume : Nomor 4/Volume 25  
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 g. Jurnal URL : [https://journal.gnest.org/publication/gnest\\_04554](https://journal.gnest.org/publication/gnest_04554)  
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 Jurnal Ilmiah Nasional Terakreditasi  
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Hasil Penilaian *Peer Review*

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah					Nilai Akhir Yang Diperoleh
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Kelengkapan unsur dan kualitas penerbit (30%)	12					12
<b>Total = (100 %)</b>	40					38
<b>Kontribusi Pengusul (Penulis Pendukung 3 dari 3 Penulis) (0,4x40)/2</b>						<b>7,6</b>

**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

**2. Tentang ruang lingkup dan kedalaman pembahasan**

Isi artikel berkaitan dengan penggunaan *fly ash* hasil pembakaran batu bara yang dimodifikasi dengan *coconut fiber* dan betonite menjadi penutup *landfill*. Data-data yang ditampilkan cukup jelas dan detail, serta dilengkapi dengan grafik untuk memperjelas pembahasan.

**3. Kecukupan dan kemutakhiran data serta metodologi**

Artikel ini menggunakan referensi yang cukup banyak dan *up to date* sehingga kecukupan dan kemutakhiran data cukup baik. Metodologi yang digunakan sudah baik dan jelas, pada penelitian ini dilakukan pengumpulan *fly ash* dari limbah industri batu bara dan dilengkapi dengan bentonite dan *coconut fiber*. Originalitas artikel cukup baik yang ditunjukkan oleh Turnitin *similarity index* = 13%.

**4. Kelengkapan unsur kualitas penerbit**

Artikel terdapat dalam Global NEST Journal yang diterbitkan oleh Global NEST dan telah terindeks Scopus Q3: General Environmental Science dan SJR (2022) 0,272

Semarang, Mei 2023  
Reviewer 1

Nama : Prof. Dr. Ir. Syafrudin, CES., M.T., IPM.  
 NIP : 19581107198803001  
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Kelengkapan unsur dan kualitas penerbit (30%)	12					12
<b>Total = (100 %)</b>	40					38,5
<b>Kontribusi Pengusul (Penulis Pendukung 3 dari 3 Penulis) (0,4x40)/2</b>						<b>7,7</b>

**1. 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.

**2. Tentang ruang lingkup dan kedalaman pembahasan**

Ruang lingkup dan pembahasan artikel berkaitan dengan modifikasi *fly ash*, bentonite, dan *coconut fiber* sebagai lapisan liner pada landfill. Pembahasan memberikan data-data yang cukup banyak, jelas, dan detail. Grafik dan gambar ditampilkan sebagai pendukung untuk memperjelas pembahasan.

**3. Kecukupan dan kemutakhiran data serta metodologi**

Artikel ini memiliki nilai kemutakhiran dan kebaruan yang cukup baik. ditunjukkan dengan penggunaan 42 referensi yang merupakan jurnal internasional dan 1 referensi jurnal ilmiah nasional yang *up to date*. Metodologi yang digunakan cukup baik dan originalitas artikel cukup baik dengan Turnitin *similarity index* = 13%, didukung 8% *internet sources*, 8% publikasi, dan 1% *student paper*.

**4. Kelengkapan unsur kualitas penerbit**

Artikel terdapat dalam Global NEST Journal yang diterbitkan oleh Global NEST dengan H-index 36 dan telah terindeks Scopus Q3: General Environmental Science dan SJR (2022) 0,272

Semarang, Mei 2023

Reviewer 2



Nama : Dr. Ir. Badrus Zaman, S.T., M.T., IPM.

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Jabatan Fungsional : Lektor Kepala

Unit Kerja : Dept. Teknik Lingkungan UNDIP



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The *Global NEST Journal* is an open access journal that publishes original research articles, short papers and critical reviews on all aspects of *Environmental Science and Technology*. These comprise, but are not limited to, Pollution Control Technology, Global Environmental Change, Air Quality, Water Quality, Water and Waste Water Treatment, Solid Waste Management, Hazardous Substances and Risk Analysis, Emerging pollutants. Relevant topics incorporating the methodologies and state of the art of disciplines such as Environmental Management Policies, Ecosystems and Natural Resources Management, Hydrology and Water Resources Management, Clean Energy and Sustainability are included.

Submitted manuscripts are initially reviewed by the editor and selected after rigorous peer review by scientists in order to assess the significance, originality and appropriateness for publication.

Articles submitted to Global NEST Journal benefit from its broad scope and readership. We aim for a turnaround time of 4 weeks from submission to first decision.

Global NEST Journal is addressed to professionals in Academic, Consulting Offices, Government Agencies and Organisations, as well as others responsible for the investigations, evaluation of complicated environmental issues of global interest.

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### Evaluating Coconut Fiber and Fly Ash Composites for Use in Landfill Retention Layers

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## IMPACT OF BIO-COMPETITIVE EXCLUSION ON NITRATE-REDUCING BACTERIA IN OIL RESERVOIR WATER TREATMENT

ShiLun Zhang DaWei Wang Bo Huang Bo Jing, Pages:34-42

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## Water quality assessment in coastal lagoons using improved back propagation deep neural network with PH level compensation sensors in smart environment

Venkatesan V.<sup>1\*</sup> and Adilakshmi A.<sup>2</sup>

<sup>1</sup>Department of Civil Engineering, University College of Engineering, Anna University, Ariyalur-621 731, Tamilnadu-India

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## Impact of bio-competitive exclusion on nitrate-reducing bacteria in oil reservoir water treatment

Zhang S.L.<sup>1,2,\*</sup>, Wang D.W.<sup>1,2</sup>, Huang B.<sup>1,2</sup> and Jing B.<sup>1,2</sup>

<sup>1</sup>State Key Laboratory of Offshore Oil Exploitation, Beijing, 100028, China

<sup>2</sup>China National Offshore Oil Corporation (CNOOC) Research Institute, Beijing, 100028, China

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