

**LEMBAR**  
**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH: CONFERENCE PAPER**  
**Bukti artikel: C-29**

Judul Karya Ilmiah (Artikel) : Isolation, characterization, and identification of endophytic bacteria by 16S rRNA partial sequencing technique from leaves of carica papaya and its potential as an antioxidant

Jumlah Penulis : 9 Orang Penulis anggota

Nama Penulis : Purbowatiningrum Ria Sarjono, Qisthy Hanifati Hazrina, Anggit Saputra, Nies Suci Mulyani, Agustina Lulustyaningati Nurul Aminin, Ngadiwiyana, Ismiyarto, Dewi Kusri, Nor Basid Adiwibawa Prasetya

Nama Konferensi : The 14th joint conference on chemistry 2019

Identitas Prosiding

a. Nama Prosiding : AIP Conference Proceedings

b. Nomor ISSN : 0094-243X

c. Volume, No, Tahun : Vol. 2237, No. 1, Tahun 2020

d. Penerbit : AIP Publishing LLC

e. DOI artikel (jika ada) : <https://doi.org/10.1063/5.0005715>

f. URL Jurnal : <https://pubs.aip.org/aip/acp/article-abstract/2237/1/020053/1007516/Isolation-characterization-and-identification-of?redirectedFrom=fulltext>

g. Alamat web jurnal : <https://pubs.aip.org/aip/acp/issue/2237/1>

h. Indexing : Google Scholar, Scopus, Scimagojr

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 (beri ✓ pada kategori yang tepat) ☐ Prosiding internasional terindeks di Scopus, IEEE Explorer, SPIE  
☐ Prosiding internasional  
☐ Prosiding Nasional

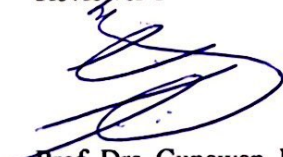
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|                                                                   | Dipublikasi pada Prosiding Internasional terindeks di Scimagojr dan Scopus (30) |                            |
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| d. Kelengkapan unsur dan kualitas penerbit (30%)                  | 9                                                                               | 8,75                       |
| <b>Total = (100%)</b>                                             | <b>30</b>                                                                       | <b>29,25</b>               |

Semarang, 24 Mei 2023

Reviewer 1

Reviewer 2



Prof. Drs. Gunawan, M.Si., Ph.D.

NIP. 196408251991031001

Unit kerja:

Departemen Kimia FSM Undip

Jabatan Fungsional: Guru Besar

Bidang Ilmu: Kimia



Dr. Retno Ariadi Lusiana, S.Si., M.Si.

NIP. 197012021997022001

Unit kerja:

Departemen Kimia FSM Undip

Jabatan Fungsional: Lektor Kepala

Bidang Ilmu: Kimia

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☐ Prosiding internasional  
☐ Prosiding Nasional

Hasil Penilaian Peer Review :

| Komponen yang Dinilai                                             | Nilai Reviewer |             | Nilai Rata-rata |
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|                                                                   | Reviewer I     | Reviewer II |                 |
| a. Kelengkapan unsur isi jurnal (10%)                             | 3              | 3           | 3               |
| b. Ruang lingkup dan kedalaman pembahasan (30%)                   | 8,7            | 8,8         | 8,75            |
| c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%) | 8,8            | 8,7         | 8,75            |
| d. Kelengkapan unsur dan kualitas penerbit (30%)                  | 8,7            | 8,8         | 8,75            |
| <b>Total = (100%)</b>                                             | <b>29,2</b>    | <b>29,3</b> | <b>29,25</b>    |

Reviewer 1



Prof. Drs. Gunawan, M.Si., Ph.D.  
 NIP. 196408251991031001  
 Unit kerja:  
 Departemen Kimia FSM Undip  
 Jabatan Fungsional: Guru Besar  
 Bidang Ilmu: Kimia

Semarang, 24 Mei 2023

Reviewer 2



Dr. Retno Ariadi Lusiana, S.Si., M.Si.  
 NIP. 197012021997022001  
 Unit kerja:  
 Departemen Kimia FSM Undip  
 Jabatan Fungsional: Lektor Kepala  
 Bidang Ilmu: Kimia



**LEMBAR**  
**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
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☐ Prosiding internasional  
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| c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%) | 9                                                    |                                                             |                              |                         | 8,8                        |
| d. Kelengkapan unsur dan kualitas penerbit (30%)                  | 9                                                    |                                                             |                              |                         | 8,7                        |
| <b>Total = (100%)</b>                                             | <b>30</b>                                            |                                                             |                              |                         | <b>29,2</b>                |
| <b>Kontribusi Pengusul (Penulis Anggota)</b>                      | $40\% \times 29,2 : 8 = 1,46$                        |                                                             |                              |                         |                            |

Komentar Peer Review:

- a. **Kelengkapan dan kesesuaian unsur:** Komponen penyusun artikel sudah lengkap dan sesuai dengan kaidah penulisan yang ada meliputi judul, penulis, institusi, abstrak, pendahuluan, metodologi, hasil dan pembahasan, kesimpulan, acknowledgement, dan referensi. Penulis telah mengikuti author guidelines dan paper ini ditulis dengan bahasa Inggris yang baik.
- b. **Ruang lingkup dan kedalaman pembahasan:** Artikel ini membahas tentang isolasi dan identifikasi bakteri endofit dari daun pepaya serta potensinya sebagai material bersifat antioksidan. Sebanyak 16 jurnal digunakan sebagai referensi yang menunjukkan bahwa cakupan dari artikel ini cukup mendalam.
- c. **Kecukupan dan kemutakhiran data/informasi dan metodologi:** Metodologi dan Data yang disajikan cukup lengkap dan dilengkapi dengan metode terkini dalam proses pemurnian DNA dan amplifikasi menggunakan PCR dan elektroforesis. Mayoritas artikel yang menjadi rujukan adalah terbit 10 tahun sebelum artikel ini terbit menandakan bahwa dilakukan studi literatur yang masih relevan dan mutakhir.
- d. **Kelengkapan unsur dan kualitas penerbit:** Similarity indeks dari paper ini sebesar 18% yang kemunikan berasal dari kalimat yang memiliki susunan yang mirip, akan tetapi secara substansi tidak terindikasi adanya plagiasi dalam paper ini. Kualitas paper ini juga dapat dilihat dari jumlah referensi yang banyak yang digunakan.

Semarang, 22 Mei 2023

Reviewer 1



Prof. Drs. Gunawan, M.Si., Ph.D.  
NIP. 196408251991031001

Unit kerja :  
Departemen Kimia FSM Undip  
Jabatan Fungsional: Guru Besar  
Bidang ilmu: Kimia



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☐ Prosiding internasional

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|-------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|------------------------------|-------------------------|----------------------------|
|                                                                   | Internasional terindeks di Scimagojr dan Scopus (30) | internasional terindeks di Scopus, IEEE Explorer, SPIE (25) | Prosiding internasional (15) | Prosiding Nasional (10) |                            |
| a. Kelengkapan unsur isi makalah (10%)                            | 3                                                    |                                                             |                              |                         | 3                          |
| b. Ruang lingkup dan kedalaman pembahasan (30%)                   | 9                                                    |                                                             |                              |                         | 8,8                        |
| c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%) | 9                                                    |                                                             |                              |                         | 8,1                        |
| d. Kelengkapan unsur dan kualitas penerbit (30%)                  | 9                                                    |                                                             |                              |                         | 8,8                        |
| <b>Total = (100%)</b>                                             | <b>30</b>                                            |                                                             |                              |                         | <b>29,3</b>                |
| <b>Kontribusi Pengusul (Penulis Anggota)</b>                      | $40\% \times 29,3 : 8 = 1,47$                        |                                                             |                              |                         |                            |

**Komentar Peer Review:**

- a. **Kelengkapan dan kesesuaian unsur:** kesesuaian unsur dari artikel ini sudah lengkap dan sesuai dengan kaidah penulisan jurnal yang mencakup Title, Introduction, Experimental, Results and Discussion, Conclusion, dan References. Penulis telah mengikuti author guidelines. Satu bagian dengan bagian lainnya saling berhubungan dan saling melengkapi.
- b. **Ruang lingkup dan kedalaman pembahasan:** Sebanyak 16 jurnal dijadikan referensi menunjukkan bahwa paper ini memiliki pembahasan yang cukup luas dan mendalam. Adanya 6 figures dan 5 tabel menandakan bahwa paper memiliki kedalaman yang cukup baik dalam memberikan informasi. Pembahasan paper ini mampu menawarkan penjelasan tentang potensi antioksidan dari isolat bakteri endofit dari daun pepaya.
- c. **Kecukupan dan kemutakhiran data/informasi dan metodologi:** Metodologi yang digunakan menunjukkan kemutakhiran dengan melibatkan instrumentasi PCR dan elektroforesis dalam analisis DNA. Data yang diperoleh cukup bisa dijelaskan secara ilmiah. Namun, keterkinian literatur pendukung masih kurang karena beberapa artikel referensi telah diterbitkan lebih dari 5 tahun.
- d. **Kelengkapan unsur dan kualitas penerbit:** Journal of Physics: Conference Series merupakan prosiding internasional yang diterbitkan oleh IOP Publishing dan terindeks di Scimagojr dan Scopus. Similarity indeks dari paper ini menggunakan turnitin sebesar 18% dan menunjukkan orisinalitas artikel cukup baik.

Semarang, 22 Mei 2023

Reviewer 2



Dr. Retno Ariadi Lusiana, S.Si., M.Si.

NIP. 197012021997022001

Unit kerja :

Departemen Kimia FSM Undip

Jabatan Fungsional: Lektor Kepala

Bidang ilmu: Kimia

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# Preface: The 14th joint conference on chemistry 2019

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## Preface: The 14th Joint Conference on Chemistry 2019

Thank you very much for this opportunity to hold the international conference of JCC 14 on 10-11 September 2019, by Chemistry Department, Faculty of Math and Natural Science, Universitas Sebelas Maret. This JCC conference is as annually program of the consortium of five chemistry departments in the region of Middle Java (Universitas Sebelas Maret, Universitas Diponegoro, Universitas Jenderal Sudirman, Universitas Negeri Semarang, Universitas Kristen Satya Wacana) and a guest member from Malaysia (Universitas Malaysia Sabah)

On the behalf of organizing committee of JCC 2019, I appreciate to all participants to meet in this scientific conference on chemistry 2019, 14th JCC. It was my pleasure to facilitate the ideas in development of chemistry and education chemistry within the region of middle Java also worldwide. I expect that our conference gives good impact to the chemist society not only in the region but in the world through the scientific ideas or publications outcoming from this conference. Besides, I hope that our collaboration can be intensively done by joint research between the members of this consortium in the near future.

I would like to thank to Scientific Committee for the publishing articles of the proceeding of the 14th JCC conference in AIP publishing.

Surakarta, 20 December 2019

Dr. rer.nat. Atmanto Heru Wibowo, S.Si., M.Si  
Chairman of JCC 2019  
<https://jcc.uns.ac.id/>



Synthesis and characterization of unsymmetrically branched alkyl chains carbazole-based polymer

Mohd Sani Sarjadi; Shu Er Tan; Xin Lin Wong; Farah Hannan Anuar; Md. Shaheen Sarkar; Md. Lutfor Rahman

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Choiril Azmiyawati; F. A. Yamin; A. Darmawan; L. Suyati

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Study of Rhodamine B adsorption onto activated carbon from spent coffee grounds

Teguh Wirawan; Soerja Koesnarpadi; Nanang Tri Widodo

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Photodegradation of phenol in batik wastewater with copper (II) oxide under visible light illumination

Tien Setyaningtyas; Kapti Riyani; Cherly Firdharini

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Rahmaniar; Aprillena Tornadez Bondan; Tri Susanto

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Amelli; Laila N. Mastuti; Aulia D. Arini; Yayuk Astuti

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Imprinted zeolite modified carbon paste electrode as a selective potentiometric sensor for blood glucose

Miratul Khasanah; Alfa Akustia Widati; Usreg Sri Handajani; Masfah Raudlotus Shofiyah; Sabrina Aulia Rakhma; Herwin Predianto

AIP Conference Proceedings 2237, 020011 (2020) doi: <https://doi.org/10.1063/5.0005231>

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Optimization of supersaturated solution from *stevia rebaudiana* water extract lead to crystal nucleation

Yohanes Martono; Yohanes Difto Adiwibowo; November Rianto Aminu

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Adsorption of cibacet yellow and cibacet red from aqueous solution onto activated carbon from annatto peels (*Bixa orellana* L.) ▾

C. A. Riyanto; Y. S. Widodo; M. S. Ampri; E. Prabalaras; A. Sudibya; Y. A. Putra; I. G. K. A. Kameswara; F. T. W. Hananto

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Effect of working electrode thickness using binahong leaves (*Anredera cordifolia*) dye to the efficiency of dye-sensitized solar cell (DSSC) ▾

B. Y. Muryani; F. Nurosyid; Kusumandari

AIP Conference Proceedings 2237, 020017 (2020) doi: <https://doi.org/10.1063/5.0005688>

Abstract ▾

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A novel synthesis of 1,1'-(2,4,6-trihydroxy-1,3-phenylene)bis(ethan-1-one) (DAPG) using CuSO<sub>4</sub>·5H<sub>2</sub>O as a green catalyst ▾

Carissa Hertiningtyas; Triana Kusumaningsih; Maulidan Firdaus

AIP Conference Proceedings 2237, 020018 (2020) doi: <https://doi.org/10.1063/5.0005344>

Abstract ▾

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RGO-NiCo<sub>2</sub>S<sub>4</sub> composite as a counter electrode for solid-state DSSC system with Cul as an electrolyte ▾

Qonita Awliya Hanif; Sayekti Wahyuningsih; Ari Handono Ramelan

AIP Conference Proceedings 2237, 020019 (2020) doi: <https://doi.org/10.1063/5.0009131>

Abstract ▾

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Biodiesel production using palm fatty acid distillate and rice husk silica supported NiSO<sub>4</sub> as catalyst ▾

Noor Hindriyawati; Nanang Tri Widodo; Moh. Syaiful Arief; Irfan Ashari Hiyahara; Gaanty Pragas Maniam

AIP Conference Proceedings 2237, 020020 (2020) doi: <https://doi.org/10.1063/5.0005557>

Abstract ▾

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Esterification of oxidized ricinoleic acid with various alcohols to produce emulsifier and antimicrobial compounds ▾

Atika Nabilah; Sri Handayani; Siswati Setiasih; Dyah Utami Cahyaning Rahayu; Sumi Hudiyo

AIP Conference Proceedings 2237, 020021 (2020) doi: <https://doi.org/10.1063/5.0005809>

Abstract ▾

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Nanoparticles Fe<sub>3</sub>O<sub>4</sub> modified chitosan and its antibacterial applications ▾

Soerja Koesnarpadi; Winni Astuti; Ika Yekti Lianasari

AIP Conference Proceedings 2237, 020022 (2020) doi: <https://doi.org/10.1063/5.0005693>

Abstract ▾

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Development of nanofluid biodegradable detergent from palm kernel oil and TiO<sub>2</sub>

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