

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

Judul Jurnal Ilmiah (Artikel) : Detection Of Cadmium Seepage In Settlement Areas Around The West Flood Canal Of Semarang City Using Geoelectric Methods And AAS Test

Nama/ Jumlah Penulis : 4 Orang

Status Pengusul : penulis ke-3

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : IOSR Journal of Environmental Science, Toxicology and Food Technology
- b. Nomor ISSN : 2319-2402
- c. Vol, No., Bln Thn : Vol 14, 6, Juni 2020
- d. Penerbit : International Organization Of Scientific Research (IOSR)
- e. DOI artikel (jika ada) : 10.9790/2402-1406024752
- f. Alamat web jurnal : <https://www.iosrjournals.org/iosr-jestft.html>
- Alamat Artikel : <https://www.iosrjournals.org/iosr-jestft/papers/Vol14-Issue6/Series-2/G1406024752.pdf>
- g. Terindex : J-Gate, CrossRef, NASA

Kategori Publikasi Jurnal Ilmiah (beri ✓ pada kategori yang tepat) :

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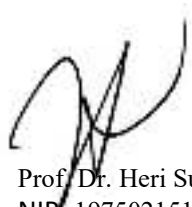
Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	2	2	2
b. Ruang lingkup dan kedalaman pembahasan (30%)	5,9	5,8	5,85
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	5,9	5,8	5,85
d. Kelengkapan unsur dan kualitas penerbit (30%)	6	5,8	5,9
<b>Total = (100%)</b>			<b>19,6</b>
<b>Nilai untuk Pengusul : <math>(40\% \times 19,6) / 3 = 2,61</math></b>			

Semarang, 3 Oktober 2022

Reviewer 1

Reviewer 2



Prof. Dr. Heri Sutanto, S.Si, M.Si  
NIP. 197502151998021001  
Unit Kerja: FSM Universitas Diponegoro  
Bidang Ilmu: Fisika



Prof. Dr. Rahmat Gernowo, M.Si  
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Bidang Ilmu: Fisika

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Kategori Publikasi Jurnal Ilmiah :  Jurnal Ilmiah Internasional/Internasional Bereputasi  
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Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
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a. Kelengkapan unsur isi jurnal (10%)	2,00			2,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	6,00			5,90
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6,00			5,90
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6,00			6,00
<b>Total = (100%)</b>	20,00			19,8
<b>Nilai Pengusul = (40% x 19,8)/3 = 2,64</b>				

**Catatan Penilaian artikel oleh Reviewer :**

**1. Kelengkapan unsur isi jurnal:**

Artikel telah ditulis secara lengkap (judul, abstrak hingga kesimpulan) sesuai dengan standar IOSR Journal of Environmental Science, Toxicology and Food Technology. Topik artikel masuk scope journal.

**2. Ruang lingkup dan kedalaman pembahasan:**

Lingkup artikel tentang deteksi rembesan unsur Kadmium di kawasan sekitar Kanal Banjir Barat Kota Semarang menggunakan metode Geolistrik dan AAS. Hasil penelitian berupa data primer pengujian AAS dan penentuan resistivitas geolistrik. Pembahasan telah dilakukan secara bagus sesuai data primer dan telah membandingkan dengan 4 hasil peneliti lain. Judul abstrak dan kesimpulan sinkron.

**3. Kecukupan dan kemutakhiran data/informasi dan metodologi:**

Data primer diperoleh dari hasil pengujian AAS. Data penelitian sangat memadai dan telah ditampilkan secara menarik dan jelas. Metode geolistrik dan AAS digunakan untuk mengetahui rembesan cadmium yang berpengaruh terhadap sifat listrik dibawah permukaan. Artikel yang disusun berdasarkan 15 referensi dan kategori mutakhir serta relevan dengan topik artikel.

**4. Kelengkapan unsur dan kualitas terbitan:**

Kualitas penerbitan IOSR Journal of Environmental Science, Toxicology and Food Technology kategori baik dan konsisten. Kelengkapan unsur jurnal lengkap ada author guidelines, editorial board dan info indexing. Penerbitan sudah sangat bagus tertata rapi. Nilai maksimal: 20.

Semarang, 20 November 2022

Reviewer 1



Prof. Dr. Heri Sutanto, S.Si., M.Si.

NIP. 197502151998021001

Unit Kerja: FSM Universitas Diponegoro

Bidang Ilmu: Fisika

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Kategori Publikasi Jurnal Ilmiah :  Jurnal Ilmiah Internasional/Internasional Bereputasi  
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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional <input checked="" type="checkbox"/>	Nasional Terakreditasi <input type="checkbox"/>	Nasional Tidak Terakreditasi <input type="checkbox"/>	
a. Kelengkapan unsur isi jurnal (10%)	2,00			2
b. Ruang lingkup dan kedalaman pembahasan (30%)	6,00			5,8
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6,00			5,8
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6,00			5,8
<b>Total = (100%)</b>	20,00			19,4
<b>Nilai Pengusul = (40 % x 19,4) / 3 = 2,58</b>				

Catatan Penilaian artikel oleh Reviewer :

**1. Kelengkapan unsur isi jurnal:**

Artikel telah ditulis sesuai dengan standar IOSR Journal of Environmental Science, Toxicology and Food Technology, *sebuah jurnal Internasional terindex*  
Latar belakang memberikan dasar yang sangat kuat untuk mengemukakan sesuatu yang baru dalam artikel. . Kebaruan dari kajian ini dikemukakan dengan baik dan jelas.

**2. Ruang lingkup dan kedalaman pembahasan:**

Pembahasan dengan menggunakan metoda yang diusulkan dalam artikel cukup komprehensif. Diskusi telah dilakukan dengan para peneliti lain melalui referensi yang disitasi. Sebuah artikel yang menarik.

**3. Kecukupan dan kemutakhiran data/informasi dan metodologi:**

Data dan referensi mutakhir, termasuk referensi dari kajian yang dilakukan oleh peneliti. Metoda standar dibidangnya dan akan bisa direfleksikan oleh peneliti lain sebidang.

**4. Kelengkapan unsur dan kualitas terbitan:**

Penerbitan sudah sangat bagus tertata rapi IOSR Journal of Environmental Science, Toxicology and Food Technology, nilai maksimum 20

Semarang, 3 Oktober 2022  
Reviewer 2



Prof. Dr. Rahmat Gernowo, M.Si  
NIP. 196511231994031003  
Unit Kerja: FSM Universitas Diponegoro  
Bidang Ilmu: Fisika



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## IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) ^



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<b>Position :</b>	Senior Associate Professor
<b>Paper Publication in Int Journal :</b>	10
<b>Paper Publication in Conference ::</b>	25
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**Dr. Gamal Khalil**

**Affiliation :** Alexandria University

**Position :** Prof. of Soil Physics and the Head of Soil and Agricultural Chemistry Dept.  
**Experiens :** 32 Years.  
**Paper Pub in Int Journal :** 05  
**Paper Publication in National Journal :** 87



**Dr. seema akbar**

**Affiliation :** Regional Research Institute of Unani Medicine  
**Position :** Departmental Head  
**Experiens :** 25 Years.  
**Paper Publication in Int Journal :** 34  
**Paper Publication in National Journal :** 44  
**Awards :** FSTP, FLS, FRSC



**Dr. Gusti Rusmayadi**

**Affiliation :** Agroscentiae  
**Position :** General Manager  
**Experiens :** FA  
**Paper Publication in Int Journal :** 02  
**Paper Publication in National Journal :** 10  
**Awards :** N/A



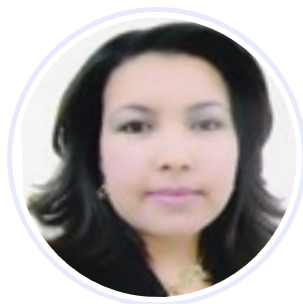
### **Dr. Salvatore Parisi**

**Affiliation :** EUPHA Food and Nutrition Section, Brussels, Belgium  
**Position :** Leader of the FHG associated  
**Experiens :** 17 Years.  
**Paper Pub. in Int Journal :** 31  
**Paper Pub. in National Journal :** 57  
**Awards :** The Italian OXOID



### **Dr. John Jiya Musa**

**Affiliation :** Federal University of Technology, Minna, Nigeria  
**Position :** LECTURER  
**Experiens :** 06 Years.  
**Paper Publication in Int Journal :** 30  
**Paper Publication in National Journal :** 10  
**Awards :** N/A



### **Dr. Boutheina DOUH**

**Affiliation :** Higher Institute of Agronomy of Chott Meriem

<b>Position :</b>	Assistant professor
<b>Experiens :</b>	07 Years.
<b>Paper Publication in Int Journal :</b>	14
<b>Paper Publication in National Journal :</b>	03
<b>Awards :</b>	N/A

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Paper Type	:	Research Paper
Title	:	<b>Comparative Study on Water Variables and plankton diversity of earthen Fish Ponds along River Ethiopia</b>
Country	:	
Authors	:	Iloba, Kate Isioma    Arebun, Blessing
	:	10.9790/2402-1406010108
	:	<b>(<a href="http://www.doi.org/">http://www.doi.org/</a>)</b>



**Abstract:** This study investigated water quality and plankton as natural food supply indicators in three earthen fish ponds at Obiaruku, Delta State, Nigeria. The investigated water variables include Water temperature and depth, transparency, pH, conductivity, alkalinity, dissolved oxygen, BOD, phosphate-phosphorus and nitrate-nitrogen. The water variables differed significantly within and among the ponds ( $p < 0.005$ ) and were within the recommended limits for fish culture. The Ponds featured phytoplankton and zooplankton constituting of six and three taxa respectively. Thirty phytoplankton species listed in this study varied differently in the ponds. Their order of significance in the various ponds is in the pattern reported viz: Pond I had Chlorophyceae > Bacillariophyceae > Cyanophyceae > Xanthophyceae > Dinophyceae > Euglenophyceae. In pond 2, it was Chlorophyceae > Bacillariophyceae > Euglenophyceae > Cyanophyceae while in Pond III; the order was Chlorophyceae > Cyanophyceae.....

**Key Words:** Water variables, Phytoplankton, Zooplankton, Diversity indices, Fish culture, River Etiope

[1]. Adeosun, F. I., Akin-Obasola, B. J., Jegede, T., Oyekanmi, F. B., and Kayode, J. O. (2014). Physical and Chemical Parameters of Lower Ogun River, Akomoje, Ogun State, Nigeria. Fisheries and Aquaculture Journal. 5: 088 - 092

[2]. APHA (American Public Health Association), (1990). Standard method for the examination of water and wastewater APHA, Washington D.C. 15th Edn.

[3]. Asmare, E., Demiss, S., and Tewabe, D. (2016). Fisheries of Jemma and Wonchit Rivers: as a means of Livelihood Diversification and its Challenges in North Shewa Zone, Ethiopia. Fisheries and Aquaculture Journal, 7(7): 182- 188.

[4]. Bhatnagar, A. and Devi, P. (2013). Water Quality Guidelines for the Management of pond fish culture. Int. Journal of Environmental Sciences. 3(6): 1980 - 2009

[5]. Burke, J. S., and Bayne, D. R. (1987). Impact of Paddlefish on Plankton and Water Quality of Catfish Ponds. The Progressive Fish-Culturist, 48(3): 177-183.

[Citation](#)[Abstract](#)

- [2]. AOAC. 1980. Official Methods of Analyses 13th Edition. Association of Official Analytical Chemists, Washington, D.C USA. Pp 56-132.
- [3]. Assam, E.S, Amoah J., A.I. and Apeku O.D. 2018. Functional and pasting properties of yellow maize-soybean-pumpkin composite flour and acceptability study of their breakfast cereals. Cogent Food and Agric. Vol. 4, issue 1
- [4]. C.A Echendu, I.C Obizoba, J.U. Anyika and P.C. Ojimeluke 2009. Changes in the chemical composition of treated and untreated Hungary rice Acha (*Digiteriaexilis*). Pakistan J. of Nutrition. Vol. 8 (11): 1779-1785. Doi: 10.3923/pjn.2009.1779-1785
- [5]. Celik I, Isik F and GursoyO. 2004. Couscous, a traditional Turkish food product: Production Method and some Applications for enrichment of nutritional value. Int. Journal of Food Science and Technology. 39 (3): 263-269, Doi: 10.1111/J.1365-2621.2004.00780.

Citation

Abstract

Reference

Full PDF (../papers/Vol14-Issue6/Series-2/G1406024752.pdf)

Paper Type	:	Research Paper
Title	:	<b>Detection of Cadmium Seepage in Settlement Areas Around the West Flood Canal of Semarang City Using Goelectric Methods and AAS Test</b>
Country	:	Indonesia
Authors	:	Danusaputro H    Suripin    Sasongko D.    Sutanto. H
	:	10.9790/2402-1406024752 
	:	<b>(http://www.doi.org/)</b>

**Abstract:** The distribution of cadmium content in the residential area around the Semarang West Flood Canal was carried out by analyzing the element content of cadmium in the community's well water and river water. In addition to knowing the presence of heavy metal infiltration in the form of pollutants is done by the dipole-dipole geoelectric method and to determine the structure of the subsoil area. Based on the low resistivity value, the difference in height between the well and the river and the AAS test results prove that seepage occurred from the river to the residents well. This research carried out around the river in the Dorowati area in Tawang Mas Village and Panggung Kidul in Tanggul Mas Village. At the Dorowati location in the first to the third lane, the resistivity value of 0.762 - 5.42  $\Omega$ m can be predicted as a pollutant. At the Kidul Stage on the first to the third trajectory, the resistivity value of 1.81 - 4.58  $\Omega$ m can be predicted as a pollutant. Based on the results of the AAS test, the content of cadmium heavy metals in river water and well water is Cd or cadmium with concentrations between 0.096 - 0.108 mg / L.

**Keywords:** Resistivity, AAS test, Cadmium concentration

[1]. Ololade, I. A., 2014. An Assessment of Heavy-Metal Contamination in Soils within Auto-Mechanic Workshops Using Enrichment and Contamination Factors with Geoaccumulation Indexes, Journal of Environmental Protection 5, pp: 970-982.