

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

Judul Karya Ilmiah (Prosiding) : Fe (III) adsorption using Fe (III) ionic imprinted polymer from polyeugenoxo acetate crosslinked with ethylene glycol dimethacrylate (EGDMA)

Nama/ Jumlah Penulis : 5 orang

Status Pengusul : Penulis ke-3

Identitas Prosiding :

a. Judul Prosiding : 10th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application, ISNPINSA 2020

b. ISBN/ISSN : 17426588

c. Thn Terbit, Tempat Pelaks. : Juli 2021, Virtual, Online 24 September 2020 through 25 September 2020

d. Penerbit/Organiser : Institute of Physics Publishing

e. Alamat Repository/Web : <https://iopscience.iop.org/journal/1742-6596>

Alamat Artikel : <https://iopscience.iop.org/article/10.1088/1742-6596/1943/1/012167/pdf>

f. Terindeks di (jika ada) : scopus

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(beri ✓ pada kategori yang tepat) Prosiding Forum Ilmiah Nasional

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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		9
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8
Total = (100%)	30		29
Nilai Pengusul =			

Catatan Penilaian artikel oleh Reviewer:

1. Kesesuaian dan kelengkapan unsur isi jurnal:

Artikel ini sesuai dengan kepakaran penulis dan kelengkapan unsur isi jurnal sesuai dari persyaratan prosiding internasional terindeks scopus. Unsur isi jurnal lengkap dengan similarity 12%.

2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup penelitian ini tentang adsorpsi Fe(III) menggunakan polimer terinprinted ion Fe(III) dari polieugenol asetat yang dihubungsilangkan dengan etilen glikol dimetakrilat. Pembahasan dikaji secara mendalam dengan referensi yang mendukung pembahasan tersebut. Hasil penelitian menunjukkan membran yg dibuat dg cara tersebut mampu mengadsorpsi besi dengan baik.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Data yang disajikan cukup dan informasi yang disajikan mutakhir dengan didukung literatur yang terbaru yaitu 39% referensi dengan tahun terbit di bawah 5 th dari artikel ini terbit. Metodologi disampaikan dengan runtut dan detail sehingga memudahkan bila ada yang akan mengulang penelitian ini.

4. Kelengkapan unsur dan kualitas terbitan:

Unsur terbitan lengkap dan kualitas terbitan baik. Jurnal ini termasuk prosiding internasional terindeks scopus.

Semarang, Juli 2022
Reviewer I



Drs. Gunawan, M.Si., Ph.D
NIP. 196408251991031001
Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Analitik

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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8
Total = (100%)			27
Nilai Pengusul =			

Catatan Penilaian Paper oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi prosiding:

Unsur prosiding telah lengkap dan sesuai dengan ketentuan penerbit, yang meliputi abstrak, pendahuluan, metodologi eksperimen, diskusi, dan Pustaka. Dalam prosiding juga sudah memenuhi unsur proses dan karakterisasi hasil penelitian.

2. Ruang lingkup dan kedalaman pembahasan:

Penelitian ini berisi tentang pembuatan polymer dengan menggunakan PA, yang hasilnya dikarakterisasi dengan menggunakan FTIR dan SEM - EDX. Polimer ini dipergunakan untuk mengadsorpsi Fe(III). Pembahasan makalah ini sudah cukup baik dimana hal ini ditunjukkan dengan similarity indeks Turnitin yang kecil yaitu 12%, dan Pustaka yang diacu lebih dari 50% berumur kurang dari 10 tahun.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Materi yang dibahas didalam prosiding ini sudah cukup lengkap dan baru dimana jumlah referensi yang berumur kurang dari 10 tahun ada 58%. Sehingga penelitian ini cukup relevan dengan perkembangan

4. Kelengkapan unsur dan kualitas terbitan/ prosiding:

Unsur penerbitan sudah sesuai dengan prosedur yang ditentukan penerbit, melalui proses seminar dan pemeriksaan material oleh team sehingga bisa dimuat di Journal of Physic : Conference series yang diterbitkan oleh IOP Publishing

Semarang, Juli 2022

Reviewer II



Dr. Rahmad Nuryanto, S.Si., M.Si.

NIP. 197105211998021001

Unit Kerja :FSM Universitas Diponegoro

Bidang Ilmu: Kimia Fisik

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Conference Proceedings

ISSN

17426588

DOI

10.1088/1742-6596/1943/1/012167

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Fe (III) adsorption using Fe (III) ionic imprinted polymer from polyeugenoxo acetate crosslinked with ethylene glycol dimethacrylate (EGDMA)

[Djunaidi M.C.](#) ; [Aini A.Q.](#); [Widodo D.S.](#); [Lusiana R.A.](#); [Suseno A.](#) [Save all to author list](#)^a Chemistry Department, Faculty of Science and Mathematics, Diponegoro University, Semarang, 50275, Indonesia[View PDF](#) [Full text options](#) **Abstract**

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Abstract

Ionic Imprinted Polymer (IIP) with polyeugenoxo acetate (PA) as the base polymer, EGDMA as the crosslinking agent, and AIBN as the initiator have been synthesized to adsorb Fe(III) metal ions. NIP (non-imprinted polymer) was used as a comparison for this study. The produced polymer was characterized using FTIR spectroscopy and SEM-EDX. Adsorption rate and capacity were examined through adsorption isotherm and kinetics studies for all adsorbents. The adsorption selectivity test was done with mixed-metal solutions of Zn(II), Cu(II), Cd(II), and Ag(I). The results of SEM analysis on IIP-PA show a more uniform and regular size than NIP-PA. Adsorption of Fe(III) in IIP-PA and NIP-PA follows pseudo-second-order kinetics, and the adsorption isotherm both follow the Langmuir theory. The adsorption capacity of Fe(III) metal ions in IIP-PA is 10.88 mg/g, and the adsorption capacity of NIP-PA

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Eluent influences on synthesis of Fe(III)-imprinted polyeugenol using polyethylene glycol diglycidylether (PEGDE) as cross-linking agent and its application as Fe(III) sorbent

Djunaidi, M.C. , Siswanta, D. , Jumina (2015) *Oriental Journal of Chemistry*

Synthesis of ionic imprinted polymer particles for selective membrane transport of Fe(III) using polyeugenol as the functional polymer

Djunaidi, M.C. , Jumina , Siswanta, D. (2016) *Oriental Journal of Chemistry*[View all related documents based on references](#)[Find more related documents in Scopus based on:](#)[Authors >](#) [Keywords >](#)

is 7.94 mg/g. The mechanism of adsorption of Fe(III) metal ions in IIP-PA and NIP-PA was dominated by hydrogen bonds between the -COOH groups and Fe(III). In binary solutions, IIP-PA adsorption selectivity coefficient is higher than NIP-PA with the order of Fe(III)/Zn (II)>Fe(III)/Cu(II)>Fe(III)/Cd(II)>Fe(III)/Ag(I) © Published under licence by IOP Publishing Ltd.

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(Semarang: University of Diponegoro) Thesis

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Journal of Physics: Conference Series

Scopus coverage years: from 2005 to Present

Publisher: Institute of Physics Publishing

ISSN: 1742-6588 E-ISSN: 1742-6596

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CELEBRATING 32nd ANNIVERSARY
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VIRTUAL CONFERENCE ISNPINSA 2020
SEPTEMBER 24th - 25th, 2020

The 10th International Seminar on New Paradigm and Innovation on Natural Science and Its Application (ISNPINSA)

“DEVELOPING INNOVATIONS AND CHALLENGES IN SCIENCE AND TECHNOLOGY FOR BETTER LIVING”

CELEBRATING 32nd ANNIVERSARY
FACULTY OF SCIENCE AND MATHEMATICS DIPONEGORO UNIVERSITY, INDONESIA

Welcoming the 32nd Anniversary of the Faculty of Science and Mathematics and the 63rd Anniversary of Diponegoro University, the Faculty of Science and Mathematics of Diponegoro University held an international conference entitled A Web Conference The 10th International Seminar on New Paradigm and Innovation on Natural Sciences and its Application (ISNPINSA). This year's Undip FSM annual conference - was held on 24-25 September 2020 with the theme “DEVELOPING INNOVATIONS AND CHALLENGES IN SCIENCE AND TECHNOLOGY FOR BETTER LIVING”. The keynote speaker in this event was Prof. Hidetaka Arimura Ph.D from Kyushu University Japan, Prof. Dr. Khairil Anwar Notodiputro from the Bogor Agricultural Institute, Prof. Wenny Rahayu from La Trobe University, Australia, Prof. Ming-Chien Su from National Dong Hwa University Taiwan, Jirawat Yongsawatdigul, PhD. from Suranaree University of Technology Thailand, Prof. Dr. Toshioh Fujibuchi from Kyushu University Japan and Prof. Dr. Tri Retnaningsih Soeprobawati, M.App.Sc. from Diponegoro University.

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Accepted papers received: 27 May 2021

Published online: 14 July 2021

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High fluorescent carbon dots/Ag as a sensitive sensor for tetracycline waste in aqueous solution

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Characterization structure of $Fe_3O_4@PEG-4000$ nanoparticles synthesized by co-precipitation method

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The effect of 6 hours stirring time on natural iron sand base on magnetics Fe_3O_4 nanoparticle by sonification

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Measurement performance quality of services (QoS) to optimizing on wireless sensor network topology for water pollution monitoring system

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Atmospheric dynamics and early warning system low level windshear for airport runway hazard mitigations

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Spintronic terahertz emission from Ni/Pt bilayer grown on MgO

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Analysis study of doses distribution in lung cancer using 3D Slicer

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Analysis of flip angle (fa) toward image anatomical information in sagittal t2* w merge: (study of knee joint magnetic resonance imaging in anterior cruciate ligament tear case)

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Digestion diatom using Battarbee and Ruhland methods for Pengilon Lake, Dieng, Wonosobo, Central Java, Indonesia

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Application of Doyle and Doyle method for DNA isolation from pamelu yellow orange (*Citrus maxima* Merr), lime orange (*C. limon*) and sunkist orange (*C. sinensis*)

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Improvement of the potency of microalgae *Nannochloropsis* and *Chaetoceros* through antioxidant analysis and optimization of DNA isolation

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DNA isolation of clove and lemongrass using modification of the Doyle and Doyle methods and their relation with antioxidant activity

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The growth rate of inulinolytic yeast isolates from yam (*Pachyrhizus erosus* L.) and their inulinase production capability

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Production of γ -Aminobutyric Acid (GABA) by *Monascus Purpureus* isolated from

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Antibacterial activity of a thermophilic actinobacterium *Streptomyces cellulosa* SL2-2-R-9 on different growth media

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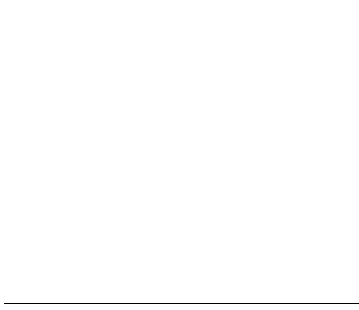
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