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

Judul Karya Ilmiah (Prosiding)	:	Gold (Au) selective adsorption using polyeugenol based ionic imprinted polymer with ethylene glycol dimethacrylate crosslink
Nama/ Jumlah Penulis	:	Didik Setiyo Widodo/5 orang
Status Pengusul	:	Penulis ke-3
Identitas Prosiding	:	a. Judul Prosiding : AIP Conference Proceedings b. ISBN/ISSN : 0094-243X c. Thn Terbit, Tempat Pelaks. : June 2020, Surakarta d. Penerbit/Organiser : American Institute of Physics Inc. e. Alamat Repository/Web : https://aip.scitation.org/journal/apc Alamat Artikel : https://aip.scitation.org/doi/10.1063/5.0005546 f. Terindeks di (jika ada) : scopus
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Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
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a. Kelengkapan unsur isi prosiding (10%)	3		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		9
c. Kecukupan dan kemutahiran 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 (AIP). Unsur isi jurnal lengkap dengan similarity 13%.

2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup penelitian ini tentang Adsorpsi selektif emas menggunakan polimer imprinted ion berbasis polieugenol dengan ikatan silang etilen glikol dimetrakrilat. Pembahasan dikaji secara mendalam dengan referensi yang mendukung pembahasan tersebut. Hasil penelitian menunjukkan membran yg dibuat dg cara tersebut mampu mengambil emas dengan baik.

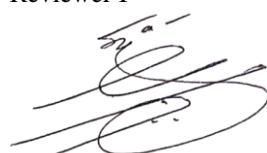
3. Kecukupan dan kemutahiran data/informasi dan metodologi:

Data yang disajikan cukup dan informasi yang disajikan mutakhir dengan didukung literatur yang terbaru yaitu 58% referensi dengan tahun terbit di bawah 5 th dari artikel ini terbit. Metodologi disampaikan Dengan runtut dan detil 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 (AIP).

Semarang, Juli 2022
Reviewer I



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

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b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9		8
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		9
Total = (100%)	9		28
Nilai Pengusul =			

Catatan Penilaian Paper oleh Reviewer :

1. **Kesesuaian dan kelengkapan unsur isi prosiding:**

Proseding ini telah sesuai dan lengkap sesuai dengan standar penerbit AIP Proceeding, yang meliputi abstrak, penaduhan, metodologi, hasil dan diskusi, kesimpulan dan Pustaka.

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

Penelitian ini dilakukan untuk menghasilkan suatu adsorbent selektif emas dengan menggunakan bahan dasar etilen glikol dimetil akrilat. Hasil sthesis kemudian dikarakterisasi dengan beberapa alat seperti FTIR, SEM-EDX, dan TGA-DTA. Sehingga membuat pembahasan hasil penelitian pada makalah ini cukup mendalam dan lengkap.

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

Data yang dihasilkan sudah cukup lengkap sehingga bisa dihasilkan informasi hasil penelitian yang baik. Selain itu dengan menggunakan acuan Pustaka yang cukup baru dengan prosentase Pustaka yang kurang dari 10 tahun adalah 92%, dan similarity indeks dari Turnitin 13%

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

Prosiding ini telah melalui proses seminar dan di telah oleh tim untuk dimuat diroceeding terindeks Scopus. Kualitas terbitan prosiding ini bagus karena memiliki standar penerbitan internasional.

Semarang, Juli 2022

Reviewer II

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

NIP. 197105211998021001

Unit Kerja :FSM Universitas Diponegoro

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Gold (Au) selective adsorption using polyeugenol based ionic imprinted polymer with ethylene glycol dimethacrylate crosslink

Djunaidi, M. Cholid [✉](#); Prasetya, Nor Basid Adiwibawa; Widodo, Didik Setiyo; Lusiana, Retno Ariadi;

Pardoyo

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^a Analytical Chemistry Laboratory, Department of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Jl. Prof. Soedharto SH., Tembalang, Semarang, 50275, Indonesia

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Synthesis of ionic imprinted membrane of gold (Au) particles based on polyeugenol using ethylene glycol dimethacrylate as a cross link agent

Djunaidi, M.C. , Octaviani, L.P. , Prasetya, N.B.A.

(2021) *Research Journal of Chemistry and Environment*

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Fan, X.-H. , Guo, J.-K. , Ren, X.-H. (2021) *Xiandai Huagong/Modern Chemical Industry*

In-situ ionic imprinted membrane (lim) synthesis based on acetic polyeugenoxo acetyl thiophen methanolate for gold(iii) metal ion transports

Djunaidi, M.C. , Pardoyo , Widodo, D.S.

(2020) *Indonesian Journal of Chemistry*[View all related documents based on references](#)

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The Ionic imprinted polymer (IIP) Au (III) adsorbent has been synthesized using polyeugenol as a base polymer with ethylene glycol dimethacrylate (EGDMA) as a crosslinking agent to adsorb Au (III) metal ions from water media. The synthesis procedure includes polymerization, binding of mold ions, crosslinking and mold ions release. As a comparison, the non-imprinted polymer (NIP) material was

also synthesized. The polymer yielded was characterized using FTIR, SEM-EDX, and TGA-DTA and then continued with adsorption. Selective adsorption was tested for a mixture of Au (III) binary metal ions with Cd (II), Pb (II) and Fe (III). The adsorption mechanism of Au (III) in all adsorbents is dominant because of the coordination bond between the -OH group and the Au (III) hydrate. Adsorption capacity is expressed as a percentage of IIP-Au (III) of 99.88% over the capacity of other adsorbents; IIP-Au (III) is more selective than NIP with successive selectivity coefficients of Fe (III) 263.03, Cd (II) 53.18, and Pb (II) 6.06. © 2020 Author(s).

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Synthesis of fe ionic-imprinted polyeugenol using polyethylene glycol diglycidilether as cross-linking agent for sorption of fe(III) ([Open Access](#))

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The Impact of Template Types on Polyeugenol to the Adsorption Selectivity of Ionic Imprinted Polymer (IIP) Fe Metal Ion ([Open Access](#))

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✉ Djunaidi, M.C.; Analytical Chemistry Laboratory, Department of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Jl. Prof. Soedharto SH.,

Tembalang, Semarang, Indonesia; email:choliddjunaidi@live.undip.ac.id

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The Joint Conference on Chemistry is an annual conference organized by the consortium of Chemistry Department of five universities in Central Java: Universitas Sebelas Maret (UNS), Universitas Diponegoro (UNDIP), Universitas Negeri Semarang (UNNES), Universitas Jenderal Soedirman (UNSOED) and Universitas Kristen Satya Wacana (UKSW). This joint conference has been held since 2006 which initially started with a local seminar to accommodate the dissemination of research results from chemistry lecturers and researchers from the five universities. Starting 2014, we enhanced the scope of conference to be an International Conference by inviting overseas participant from all over the world.

WHERE

Solo Paragon Hotel & Residences
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WHEN

Tuesday to Wednesday
10th – 11th September 2019

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The 14th Joint Conference on Chemistry 2019 has evolved to a major global chemistry related disciplinary event, attracting participants from all over the world. Special attention has been given to the research areas on advanced material chemistry which address the fundamental and related questions of sustainable development. The conference will also discuss all the major areas of chemistry, including: inorganic, physical, organic, analytical and biochemistry.

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The Conference will be held for 2 days (September 10-11th, 2019), details as following

Day 1

- ⌚ 07:00 - 08:00
Registration

- ⌚ 08:00 - 09:00
Opening Ceremony

- ⌚ 08:50 - 09:20
Keynote Speech

By **Prof. Dr. Harno Dwi Pranowo** Chief of
Indonesian Chemical Society

Day 2

- ⌚ 08:00 - 08:25
Registration Day 2

- ⌚ 08:25 - 08:30
Opening Day 2

- ⌚ 08:30 - 09:10
Plenary Lectures V

By **Prof. Dr. Santiago Gómez-Ruiz** Department
of Biology and Geology, Physics and Inorganic
Chemistry, Rey Juan Carlos University, Spain



09:20 - 09:30

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09:10 - 09:50

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09:30 - 10:10

Plenary Lectures I

By **Prof. Dr. Evamarie Hey-Hawkins** Institute of Inorganic Chemistry, Leipzig University, Germany



10:10 - 10:50

Plenary Lectures II

By **Prof. Dr. Hirofumi Tanaka** Graduate School of Life Science and Systems Engineering, Department of Human Intelligence Systems, Kyushu Institute of Technology, Japan



10:50 - 11:00

Questions and Discussion

11:00 - 11:40

Plenary Lectures III

By **Assoc. Prof. Pranoto** Chemistry Department, Universitas Sebelas Maret, Indonesia



11:40 - 12:20

Plenary Lectures IV

By **Prof. Dr. How Siew Eng** Combinatorial Chemistry & Natural Products Chemistry, Fakulti Sains dan Sumber Alam, Universiti Malaysia Sabah



12:20 - 12:30

Questions and Discussion

12:30 - 13:15

Lunch Time-Poster Session

13:15 - 15:15

Parallel Lectures I

15:15 - 15:30

Coffee Break-Poster Session

09:10 - 09:50

Plenary Lectures VI

By **Prof. Zaher Judeh, Ph. D.** School of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore



09:50 - 10:10

Questions and Discussion

10:10 - 10:20

Coffee Break

10:20 - 11:00

Plenary Lectures VII

By **Assoc. Prof. Dr. Younki Lee** School of Material Science and Engineering, Gyeongsang National University, Korea



11:00 - 11:40

Plenary Lectures VIII

By **Assoc. Prof. Dr. Javier Cepeda-Ruiz** Department of Applied Chemistry, Chemistry Faculty, University of the Basque Country (UPV/EHU), Spain



11:40 - 12:00

Questions and Discussion

12:00 - 13:00

Lunch Time-Poster Session

13:00 - 15:00

Parallel Lectures III

15:00 - 15:30

Coffee Break-Poster Session

15:30 - 17:00

Parallel Lectures IV

17:00 - 17:30

Closing Ceremony



15:30 - 17:00

Parallel Lectures II

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Conference will start in, so don't miss it.

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seconds

Important Dates (Extended) :

- 10th June 2019 : Abstract Submission ends
- 15th July 2019 (extended) : Abstract Submission ends
- 17th June 2019 : 1st Abstract acceptance
- 22th July 2019 (extended submission) : 2nd Abstract acceptance
- 7th July 2019 : Early bird registration ends
- 7th August 2019 : Late payment ends
- 25th August 2019 : Late payment ends (extended)
- 14th August 2019 : Full paper submission ends
- 31st August 2019 (extended) : Full paper submission ends
- 10th – 11th September 2019 : JCC-14 takes place

Some important remarks:

- Student rate is applicable to Students from any universities. Proof of student will be required at the time of registration
- Listener is applicable to participants who just attend the conference without submitting a paper nor giving a presentation. The listener will receive a participant certificate.

Our Speakers

The speakers of plenary lectures are

Prof. Dr. Evamarie Hey-Hawkins
 Institute of Inorganic Chemistry,
 Leipzig University, Germany

Prof. Dr. Santiago Gómez-Ruiz
 Department of Biology and
 Geology, Physics and Inorganic
 Chemistry, Rey Juan Carlos
 University, Spain

Assoc. Prof. Dr. Javier Cepeda-Ruiz
 Department of Applied
 Chemistry, Chemistry Faculty,
 University of the Basque
 Country (UPV/EHU), Spain

Prof. Dr. Hirofumi Tanaka
 Graduate School of Life Science
 and Systems Engineering,
 Department of Human
 Intelligence Systems, Kyushu
 Institute of Technology, Japan

Prof. Zaher Judeh, Ph. D.
 School of Chemical and
 Biomedical Engineering,
 Nanyang Technological
 University, Singapore

Assoc. Prof. Dr. Younki Lee
 School of Material Science and
 Engineering, Gyeongsang
 National University, Korea

Prof. Dr. How Siew Eng
 Combinatorial Chemistry &
 Natural Products Chemistry,
 Fakulti Sains dan Sumber Alam,
 Universiti Malaysia Sabah

Assoc. Prof. Pranoto
 Chemistry Department,
 Universitas Sebelas Maret,
 Indonesia

The invited speakers of parallel lectures are

Dr. Mohd Sani Sarjadi
 Faculty of Science and
 Natural Resources,
 Universiti Malaysia
 Sabah

Nor Basid Adiwibawa P., S.Si, M.Sc., Ph.D
 Chemistry Department,
 Universitas Diponegoro

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Wynona A. Nimpoen, Hendrik O. Lintang and Leny Yuliati

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Leny Yuliati, Mohd Hayrie Mohd Hatta, Siew Ling Lee and Hendrik O. Lintang

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Jessica Farah, M. Ibadurrohman and Slamet

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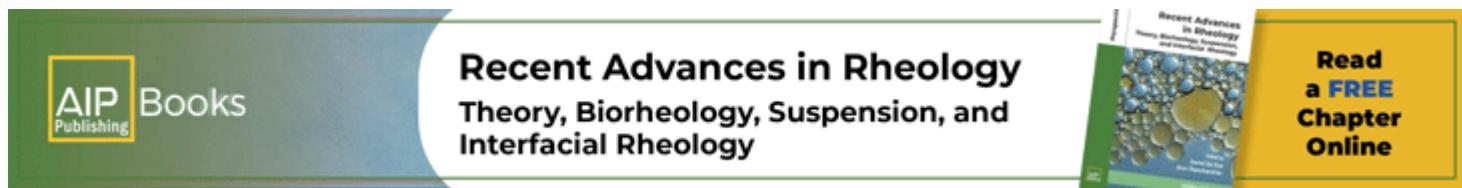
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Compound 5,15-diphenyl porphyrin (DPP) has been synthesized and inserted with different kind of metal (Fe, Cu and Zn). Synthesis of DPP has been carried out through three stages reaction using pyrrole and benzaldehyde as starting materials. Identification of synthesized compounds of 5-phenyl dipyrromethane (DPM) and 5, 15-diphenyl porphyrin (DPP) was confirmed with H-NMR. Three different metals were then inserted into the cavity of DPP. Optical spectra of Cu, Fe, Zn-DPP was then investigated and compared with free-base DPP using UV/Vis spectrophotometer. The result showed that the yield reaction of DPM reached about 41.77% and DPP reached about 21.80%. Based on the spectra investigation of metal-DPP, it showed that DPP had different Soret and Q band when each Cu (II), Fe (II), Zn (II) was inserted into DPP. Moreover, Zn-



has the more potential to be utilized for application such as DSSC.

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ABSTRACT

Development of visible-light-active photocatalyst is an important approach to utilize solar energy in the future. The attempts to improve the crystallinity of photocatalyst have been the focus of the research. Recently, the use of potassium chloride-lithium chloride (KCl-LiCl) salt melt has been reported to increase the crystallinity of carbon nitride. In this work, precursor and salt melt amounts were varied to study the properties and the photocatalytic activity of the crystalline carbon nitride for phenol degradation. When the precursor amount was too low (1 g), no product was obtained due to the decomposition of precursor. When it was too high (4 g), the product showed the characters of amorphous CN. Optical properties also showed that when the precursor amount was 3–4 g, the incomplete condensation process occurred and defects were formed due to the excessive washing. The specific surface area also decreased with the increase of the precursor amount from 2 to 4. When the amount of salt melt was too low (2.5 g), the crystalline CN could not be obtained. However, when the amount of salt melt was increased to 7.5 g, impurities could not be avoided. Longer time and multiple washing processes were required in order to remove the impurities, which certainly affected the crystallinity. Photocatalytic activity test showed that the high activity was obtained on the sample prepared using the optimum amount of precursor (2 g) and salt melt (5 g), which would be due to the high crystallinity and large specific surface area.



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