

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

Judul Karya Ilmiah (Prosiding) : **Investigation of Cu₂SnSe₃ Preparation by Simultaneous Electrodeposition as Precursor of Cu₂ZnSnSe₄ Thin Film Solar Cell**

Nama/ Jumlah Penulis : **Gunawan/5**

Status Pengusul : Penulis ke-1

Identitas Prosiding :

- a. Judul Prosiding : AIP Conference Proceedings
- b. ISBN/ISSN : 0094-243X atau 1551-7616
- c. Thn Terbit, Tempat Pelaks. : 1868, 020005, Agustus 2017, Yogyakarta
- d. Penerbit/Organiser : AIP Publishing LLC
- e. Alamat Repository/Web : <https://aip.scitation.org/journal/apc>
- Alamat Artikel : <https://aip.scitation.org/doi/abs/10.1063/1.4995091>
- f. Terindeks di (jika ada) : Web of Science, Scopus, dan Inspec

Kategori Publikasi Makalah : ☒ Prosiding Forum Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ Prosiding Forum Ilmiah Nasional

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional 30	Nasional 	
a. Kelengkapan unsur isi prosiding (10%)	3		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,5
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,5
Total = (100%)	30		29
Nilai Pengusul =			

Catatan Penilaian artikel oleh Reviewer:

1. Kesesuaian dan kelengkapan unsur isi jurnal:

Artikel yang dimuat sesuai dengan kepakaran penulis. Isi unsur jurnal lengkap sesuai yang dipersyaratkan oleh jurnal internasional (AIP Conference Proceedings). Dengan similarity sangat baik (5%).

2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup jurnal ini tentang investigasi pembuatan Cu₂SnSe₃ dengan elektrodeposisi simultan sebagai precursor sel surya lapis tipis Cu₂ZnSnSe₄. Pembahasannya cukup mendalam dengan menggunakan instrumentasi pengujian yg sangat baik (raman, XRD, SEM, EDX). Pembahasannya disertai referensi yang menguatkan data yang diperoleh yaitu tentang kemungkinan elektrodeposisi sekali jalan untuk mendapatkan Cu₂SnSe₃ tanpa harus mengganti-ganti ion logam yang akan dideposisi.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Data/informasi yang disampaikan cukup baik dan mutakhir dan metodologinya disampaikan secara detil dengan menggunakan instrument yang baik Raman, XRD, SEM EDX penelitian ini. Referensi yang digunakan up to date (10% referensi kurang dari 5 th artikel terbit dari 19 referensi)

4. Kelengkapan unsur dan kualitas terbitan:

Unsur artikel lengkap, kualitas jurnal AIP Conference Proceedings yang diterbitkan oleh AIP Publishing LLC.

Semarang, 25 Juli 2021

Reviewer I

Prof. Dr. Dra. Meiny Suzery, M.S.

NIP. 196005101989032001

Unit Kerja :FSM Universitas Diponegoro

Bidang Ilmu: Kimia Organik

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

Judul Karya Ilmiah (Prosiding) : **Investigation of Cu₂SnSe₃ Preparation by Simultaneous Electrodeposition as Precursor of Cu₂ZnSnSe₄ Thin Film Solar Cell**

Nama/ Jumlah Penulis : **Gunawan/5**

Status Pengusul : Penulis ke-1

Identitas Prosiding :

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- b. Nomor ISBN/ISSN Cetak : 0094-243X
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- d. Penerbit/Organiser : AIP Publishing LLC
- e. Alamat Repository/Web : <https://aip.scitation.org/journal/apc>
 Alamat Artikel : <https://aip.scitation.org/doi/abs/10.1063/1.4995091>
- f. Terindeks di (jika ada) : Web of Science, Scopus, dan Inspec

Kategori Publikasi Makalah : ☒ Prosiding Forum Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ Prosiding Forum Ilmiah Nasional

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional 30	Nasional 	
a. Kelengkapan unsur isi prosiding (10%)	3		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,5
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,5
Total = (100%)	30		28,5
Nilai Pengusul = 0,6 x 28,5 = 17,1			

1. Kesesuaian dan kelengkapan unsur isi jurnal:

Artikel sesuai dengan kepakaran penulis, lengkap unsur dalam isi jurnal (4) yaitu judul, abstrak (berisi latar belakang, metode dan hasil), Grafik dan tabel disitasi dan dibahas, penulisan sesuai dengan panduan AIP Conference Proceedings. Kelengkapan jurnal meliputi editor, anggota, reviewer, petunjuk penulisan juga ada. Tata penulisan terjadi cukup baik (3)

2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup artikel terkait untuk meneliti penelitian tentang pembuatan **Cu₂SnSe₃ dengan simultan elektrodeposisi sebagai prekursor solar sel lapis tipis Cu₂ZnSnSe₄**, pembahasan penelitian sudah dilakukan dengan cukup mendalam dalam membahas nya dengan instrumen XRD, Raman, SEM EDX. (8,5)

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

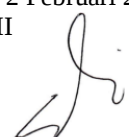
Referensi yang digunakan menunjang pembahasan dan metodologi yang digunakan uptodate (10% referensi dengan tahun terbit sebelum 5 tahun artikel ini terbit (2017) dari 19 jurnal. Metodologi singkat telah ditulis dan dibahas (8,5)

4. Kelengkapan unsur dan kualitas terbitan:

Secara umum kelengkapan unsur artikel lengkap. Kualitas jurnal AIP Conference Proceedings yang diterbitkan oleh AIP Publishing LLC terindex Web of Science, Scopus, dan Inspec serta scimago dengan SJR 0,165 (2017) (8,5)

Catatan: Turnitin 5%.

Semarang, 2 Februari 2021
 Reviewer II


 Prof. Dr. M. Cholid Djunaidi, S.Si, M.Si
 NIP. 197007021996031004
 Unit Kerja :FSM Universitas Diponegoro
 Bidang Ilmu: Kimia Analitik

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

Judul Jurnal Ilmiah (Artikel) : **Investigation of Cu₂SnSe₃ Preparation by Simultaneous Electrodeposition as Precursor of Cu₂ZnSnSe₄ Thin Film Solar Cell**

Nama/ Jumlah Penulis : **Gunawan/5**

Status Pengusul : Penulis ke-1

Identitas Jurnal Ilmiah : a. Judul Prosiding : AIP Conference Proceedings
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f. Terindeks di (jika ada) : Web of Science, Scopus, dan Inspec

Kategori Publikasi Jurnal Ilmiah : ☒ *Prosiding* Forum Ilmiah Internasional
(beri ✓ pada kategori yang tepat) ☐ *Prosiding* Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	3	3	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9	8.5	8.75
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	8.5	8.5	8.5
d. Kelengkapan unsur dan kualitas penerbit (30%)	8.5	8.5	8.5
Total = (100%)	29	28.5	28.75
Nilai untuk Pengusul : 0.6x28.75=17.25			

Reviewer 1



Prof. Dr. Dra. Meiny Suzery, M.S.
NIP. 196005101989032001
Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Organik

Semarang,

Reviewer 2



Prof. Dr. M. Cholid Djunaidi, S.Si, M.Si
NIP. 197007021996031004
Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Analitik



ISNPINSA ([HTTPS://ISNPINSA.FSM.UNDIP.AC.ID/10TH/](https://isnpinsa.fsm.undip.ac.id/10th/))



Abstract submission and registration are extended until July 29, 2020 at 11.59 PM (GMT+7)

We really appreciate your enthusiasm for sending abstracts to the 10th ISNPINSA 2020. To date, we have received 198 abstracts to participate in this year's ISNPINSA. The large number of abstracts that we received shows your high desire to participate in this year's ISNPINSA. Therefore, we still provide opportunities for you, who may be due to internet network constraints and time constraints, cannot submit your abstract(s) completely until July 24, 2020. We acknowledge your effort and wait for your participation in the 10th ISNPINSA 2020.

CONFERENCE UPDATE

After careful consideration for the growing travel and health concerns surrounding the spread of coronavirus (COVID-19), the 10th International Seminar on New Paradigm and Innovation on Natural Science and Its Application (ISNPINSA) 2020 transitioned from a two day, in-person event to a fully virtual experience.

ISNPINSA International Competition Grant (Deadline: July 29, 2020)

ISNPINSA invites international scholars to apply the ISNPINSA International Competition Grant. The grant will covers the ISNPINSA conference registration fee (IDR 700,000) and IOP Conference Series publication (Scopus, Q3) (IDR 1,600,000). The maximum number of grant available is 20. The grant is also open for early career academics who might not otherwise have the financial resources to be able to attend our academic conferences. For more information, please kindly click [here](https://isnpinsa.fsm.undip.ac.id/10th/38/isnpinsa-international-competition-grant.fsm) (<https://isnpinsa.fsm.undip.ac.id/10th/38/isnpinsa-international-competition-grant.fsm>)

About ISNPINSA

International Seminar on New Paradigm and Innovation on Natural Sciences and its Application (ISNPINSA) is annual conference organized by the Faculty of Sciences and Mathematics (FSM), Diponegoro University (UNDIP), Semarang, Central Java, Indonesia. This seminar has been successfully conducted since 2011 and therefore becoming an annual event since then.

The objectives of ISNPINSA are to facilitate brain storming and state of the art information in field of sciences and mathematics; to increase innovation of technology that can be applied in industries; to contribute in formulating strategy to increase the role of science for community; and to stimulate collaboration between industries, researchers and government to increase community welfare. The theme of 10th ISNPINSA in 2020 is "DEVELOPING INNOVATIONS AND CHALLENGES IN SCIENCE AND TECHNOLOGY FOR BETTER LIVING".

This annual ISNPINSA has been intensively achieved high level improvement in strengthening the collaboration between Scientists either from Indonesia or other countries, stimulating a new research partnership and contributing in formulating policies to increase the important roles of science for community. The Seminar will cover all research and development in the following fields—but not limited to:



1. Mathematics and Applied Mathematics

2. Physics and Applied Physics

3. Biology and Applied Biology

4. Chemistry and Applied Chemistry

5. Statistics and Applied Statistics

6. Informatics

7. Biomedical Science and Its Application

8. Biochemistry and Molecular Biology

9. Applied Ecology, Environmental Science and Sustainability

10. Earth Science and Natural Resources Management for environmental Sustainability

ISNPINSA (HTTPS://ISNPINSA.FSM.UNDIP.AC.ID/10TH/)

Date and Venue

September 24, 2020 - September 25, 2020

This conference will be held virtually (online)

Keynote Speakers



(<http://web.shs.kyushu-u.ac.jp/~arimura/>)

Prof. Hidetaka Arimura Ph.D(<http://web.shs.kyushu-u.ac.jp/~arimura/>)

Department of Health Sciences, Medical Quantum Sciences, Faculty of Medical Sciences, Kyushu University, Japan

"_"



(<https://www.stat.ipb.ac.id/en/index.php?page=prof-dr-khairil-a-n>)

Prof. Dr. Khairil Anwar Notodiputro(<https://www.stat.ipb.ac.id/en/index.php?page=prof-dr-khairil-a-n>)



(https://scholar.google.com/citations?user=_t98_OAAAAAJ&hl=en)

Prof. Wenny Rahayu(https://scholar.google.com/citations?user=_t98_OAAAAAJ&hl=en)

The Dean & Head of School of Engineering and Mathematical Sciences, La Trobe University, Australia

"_"



(https://www.researchgate.net/profile/Ming_Chien_Su)

Prof. Ming-Chien Su(https://www.researchgate.net/profile/Ming_Chien_Su)

Department of Natural Resources and Environmental Studies, National Dong Hwa University, Taiwan

"_"



ISNPINSA (HTTPS://ISNPINSA.FSM.UNDIP.AC.ID/10TH/)



(https://www.researchgate.net/profile/Jirawat_Yongsawatdigul)

Jirawat Yongsawatdigul, PhD(https://www.researchgate.net/profile/Jirawat_Yongsawatdigul)

Head of School of Food Technology, Suranaree University of Technology, Thailand

"_"



(https://www.researchgate.net/profile/Toshioh_Fujibuchi2)

Prof. Dr. Toshioh Fujibuchi(https://www.researchgate.net/profile/Toshioh_Fujibuchi2)

Division of Medical quantum science, Department of Health Sciences, Faculty of Medical Sciences, Kyushu University

"_"



(https://www.researchgate.net/profile/Tri_Soeprbowati3)

Prof. Dr. Tri Retnaningsih Soeprbowati, M.App.Sc.
(https://www.researchgate.net/profile/Tri_Soeprbowati3)

Department of Biologi, Faculty of Science and Mathematics, Diponegoro University, Indonesia

"_"



Invited Speakers



(<https://research.monash.edu/en/persons/tianhai-tian>)

Assoc. Prof. Tianhai Tian(<https://research.monash.edu/en/persons/tianhai-tian>)

School of Mathematics, Monash University, Australia

-



(https://www.researchgate.net/profile/Ibrahima_Faye5)

Dr. Ibrahima Faye(https://www.researchgate.net/profile/Ibrahima_Faye5)

Department of Fundamental & Applied Sciences, Universiti Teknologi Petronas, Malaysia

-



ISNPINSA ([HTTPS://ISNPINSA.FSM.UNDIP.AC.ID/10TH/](https://isnpinsa.fsm.undip.ac.id/10th/))



(https://www.researchgate.net/profile/Ahmad_Suseno)

Dr. Ahmad Suseno, M.Si(https://www.researchgate.net/profile/Ahmad_Suseno)

Department of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Indonesia

-



(https://stat.fsm.undip.ac.id/v1/?page_id=2252&lang=en)

Dr. Tatik Widiharini, M.Si(https://stat.fsm.undip.ac.id/v1/?page_id=2252&lang=en)

Department of Statistics, Faculty of Science and Mathematics, Diponegoro University, Indonesia

-



(<https://forlap.ristekdikti.go.id/dosen/detail/MzNEQjQ1MDMtNElyOC00MTM5LUJGNzgtNzAyODg2QzVCODQ1/0>)

Dr. Choirul Anam, M.Si

(<https://forlap.ristekdikti.go.id/dosen/detail/MzNEQjQ1MDMtNElyOC00MTM5LUJGNzgtNzAyODg2QzVCODQ1>)

Department of Physics, Faculty of Science and Mathematics, Diponegoro University, Indonesia

-



Conference Topics

DEVELOPING INNOVATIONS AND CHALLENGES IN SCIENCE AND TECHNOLOGY FOR BETTER LIVING

Topic of interest to be covered in the conference includes, but not limited to:

1. Mathematics and Applied Mathematics
2. Physics and Applied Physics
3. Biology and Applied Biology
4. Chemistry and Applied Chemistry
5. Statistics and Applied Statistics
6. Informatics
7. Biomedical Science and Its Application
8. Biochemistry and Molecular Biology
9. Applied Ecology, Environmental Science and Sustainability
10. Earth Science and Natural Resources Management for environmental Sustainability

Call For Papers

The conference invites industries, researchers and government to attend and present their works in oral session by submitting a short abstract for consideration. The abstracts will be peer-reviewed and the acceptance for presentation will be announced. In addition, prospective authors are later invited to send their full paper to be included in the conference proceeding that will be published by an international publisher.

Publication

All accepted papers will be published in one of the publications as follows:

1. Some selected papers which match the journal's Scope will be published in Indonesian Journal of Chemistry (<https://jurnal.ugm.ac.id/ijc>) (ISSN: 1411-9420). This journal quarter is Q3 and is indexed by Scopus.
2. Some selected papers which match the journal's Scope will be published in HAYATI Journal of Biosciences (<https://journal.ipb.ac.id/index.php/hayati>) (ISSN: 1978-3019). This journal quarter is Q2 and is indexed by Scopus.
3. Some selected papers will be published in IOP Journal of Physics: Conference Series (<https://iopscience.iop.org/journal/1742-6596>) (Scopus indexed).
4. Jurnal Kimia Sains dan Aplikasi (JKSA - Journal of Scientific & Applied Chemistry) (<https://ejournal.undip.ac.id/index.php/ksa>) This journal is accredited by the National Journal Accreditation (ARJUNA) managed by the Ministry of Research, Technology and Higher Education, Republic of Indonesia with Second Rank (SINTA 2).
5. Media statistika (https://ejournal.undip.ac.id/index.php/media_statistika) This journal is accredited by the National Journal Accreditation (ARJUNA) managed by the Ministry of Research, Technology and Higher Education, Republic of Indonesia with Second Rank (SINTA 2).
6. Journal of Physics and Its Applications (JPA) (<https://ejournal2.undip.ac.id/index.php/jpa>) This journal is open access and International peer-reviewed journal.

**ISNPINSA (HTTPS://ISNPINSA.FSM.UNDIP.AC.ID/10TH/)**

In general, please note that your paper should be a minimum of four pages, and a maximum of eight pages. The scientific committee will advise the author(s) if their articles will be published in the selected journals above.

Committees

Organizing Committee

1. **Nor Basid Adiwibawa Prasetya, S.Si., M.Sc., Ph.D.**
 2. **Panji Triadyaksa, S.Si., M.Sc.**
 3. **Dinar Mutiara Kusumo Nugraheni, S.T., M.InfoTech.(Comp).**
 4. Dr. Di Asih I Maruddani, S.Si., M.Si.
 5. Ratna Herdiana, M.Sc., Ph.D.
 6. Farikhin, S.Si., M.Si., Ph.D.
 7. Dr. Kusworo Adi, S.Si., M.T.
 8. Dr. Suryono, M.Si.
 9. Dr. Eng. Ali Khumaeni, ME.
 10. Sri Harumaningsih, .S.Si., M.IP.
 11. Lilik Maryuni, S.E., M.Si
 12. Novita Sulistyana, S.E., M.Si.
 13. Susilo Wanto, SH
 14. Iys Syabilla Rusda, S.IP.
 15. Choiriyah, SE
 16. Nur Azizah, SE
 17. Alik Maulidiyah, S.Si. M.Sc.
 18. Muhammad Fikri Mukhlisin, S.Kom.
 19. Ariella Giovanni Wahyuriyanto
 20. Deby Yuniarto
 21. Siswoyo
-

Event Location

Jl. Prof. Soedharto, S.H, Tembalang Semarang 50275, Indonesia

Contact Person: nor.basid.prasetya@live.undip.ac.id

Email: webmaster.fsm@live.undip.ac.id

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2021

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10th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) 2020 24-25 September 2020, Indonesia

Accepted papers received: 27 May 2021

Published online: 14 July 2021

Open all abstracts

Preface

OPEN ACCESS 011001

Preface

+ Open abstract  View article  PDF

OPEN ACCESS 011002

Peer review declaration

+ Open abstract  View article  PDF

10th ISNPINSA

OPEN ACCESS 012001

Carrying capacity of mangrove tourism in the district of Cilamaya Wetan, Karawang regency, West Java province

A Kurniawansyah, T G Pin and N Rahatiningtyas

+ Open abstract  View article  PDF

OPEN ACCESS 012002

Groundwater quality of unconfined aquifer in Demak Regency, Indonesia

T T Putranto, N Susanto and D R Pangestuti

+ Open abstract  View article  PDF

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OPEN ACCESS 012003

Geoelectrical survey and groundwater chemical analysis in Sumowono Groundwater Basin

T T Putranto, N Susanto and D R Pangestuti

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OPEN ACCESS

012004

Re-modeling kaligarang fault base on satellite gravity data

R D Indriana, M I Nurwidyanto and S Widada

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012005

The complete bouguer anomaly changes in 2019 after explosive eruption of merapi in 2010

R D Indriana and M I Nurwidyanto

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012006

Selective mine plan based on coal quality distribution of Batu Ayau formation, Murung Raya-Central Kalimantan

N Qadaryati, R A Hapsari and W K Hidajat

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012007

The potential attractiveness of development mangrove ecotourism in Karawang regency

A P Hartati and T G Pin

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012008

Spatial pattern of fishing activities at Yogyakarta waters (case study: fishers at Depok beach, Parangtritis village, Bantul regency)

M Fadlullah, D Susiloningtyas and T Handayani

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OPEN ACCESS

012009

Analysis of shoreline changes using the bilko method on landsat imagery in Karawang regency (1999-2019)

Y P Arum

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OPEN ACCESS

012010

Phonon polaritons in a bilayer ferroelectrics structure with a polarization coupling at the interface

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V Gunawan, A Subagio and N A K Umiati

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OPEN ACCESS

012011

Synthesis and magnetic properties of ferromagnetic W-type hexaferrite by mechanical milling route

Priyono, I Nurhasanah, A Subagio, J E Suseno and H Sutanto

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OPEN ACCESS

012012

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

I Alkian, H Sutanto, H Hadiyanto, E Hidayanto, H P Hapsari, A A Wibowo, A N Syahida and F D D Irianti

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OPEN ACCESS

012013

Synthesized and characterization nanosized synthesis Fe_3O_4 powder from natural iron sand

A N Syahida, H Sutanto, I Alkian, F D D Irianti, A A Wibowo and P Priyono

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OPEN ACCESS

012014

Characterization structure of $\text{Fe}_3\text{O}_4@$ PEG-4000 nanoparticles synthesized by co-precipitation method

F D D Irianti, H Sutanto, P Priyono, A A Wibowo, A N Syahida and I Alkian

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012015

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

A A Wibowo, H Sutanto, P Priyono, A N Syahida, F D D Irianti and I Alkian

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012016

Online monitoring of water pollution level based on dissolved oxygen (DO) and biochemical oxygen demand (BOD) using wireless sensor system

W H Sugiharto, M I Ghozali, S Suryono, H Susanto and M A Budihardjo

[+ Open abstract](#) [View article](#) [PDF](#)

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012017

The effect of lard concentration and ozonation on changes in polarization angle of olive oil

F A Saputra, M Azam, F Arianto, K F Sofjan, H Sugito and I Alkian

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OPEN ACCESS

012018

Modification of the analyzer on electrooptics for cooking oil quality testing

H Sugito, G N Utomo, K S Firdausi, S Sumariyah and A Khumaeni

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OPEN ACCESS

012019

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

M I Ghazali, W H Sugiharto, H Susanto, M A Budihardjo and S Suryono

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OPEN ACCESS

012020

Influence of the calcination temperature on the formation of precipitated ZnO:Ce nanocrystal by employing ultrasound irradiation

S Rohmaniah and I Nurhasanah

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012021

A study of relative dissociation energy through electro-optics effect as a potential tool for evaluation of cooking oil quality

A Septiani, G N Utomo, Sumariyah, V Richardina, H Sugito, M Azam, Q M B Soesanto and K S Firdausi

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012022

Design of overloading detection systems on vehicles using adruino

M Z Rohim, E Wijayanti and A C Murti

[+ Open abstract](#) [View article](#) [PDF](#)

OPEN ACCESS

012023

The acceleration of water absorption time in natural silk fabrics (Bombyx Mori) irradiated with positive and negative corona plasma discharges at atmospheric pressure

Z Muhlisin, M K Nugraha, I Rahmawati, F Arianto, N A K Umiyati and P Triadyaksa

[+ Open abstract](#) [View article](#) [PDF](#)

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012024

Effect of variations in milling speed with high energy milling treatment on surface area of biochar material

A Subagio, N A K Umiati, M A Kholil, S D Ratih, W Purbalisa, S Wahyuni and D M W Paputri

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

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Solanum lycopersicum and *Daucus carota*: effective anticancer agents (a mini review)

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Synthesis of Cu₂O from modified Fehling reaction for the preparation of Cu₂O thin film photocathode by using the spin coating method, characterization, and its photoelectrochemical properties

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Spintronic terahertz emission from Ni/Pt bilayer grown on MgO

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Abstract. Spintronic THz emission from Ni/Pt bilayer grown on MgO is reported based on the novel THz emitter using metallic structures. The Ni metal was deposited first on a MgO substrate and capped with a thin Pt metal via electron beam deposition. The THz emission data was obtained using a standard terahertz time-domain spectroscopy setup using a Ti: sapphire laser excitation source. Initial measurements were done using 800nm excitation with 7 mW and 185 mW pump powers under upward and downward magnetic field orientations. Polarity reversal of the terahertz signal was observed upon changing the orientation of the magnetic field. Maximum amplitude was found at 0.5 THz with bandwidth up to ~6 THz. A saturation fluence of 85.04 mJ/cm² was calculated from the pump fluence-dependence plot of the THz peak-to-peak signal. The results are consistent with the spintronic THz emission due to the inverse spin-Hall effect and provide insights for future development and optimizations.

1. Introduction

Terahertz (THz) radiation, or electromagnetic radiation in general, has been known to be generated when charge carriers accelerate [1]. This has been utilized in THz emission of materials, especially in semiconductors which main mechanisms are by drift-related current and/or diffusion-related current [2,3]. To optimize these mechanisms, different methods have been employed, such as varying dopant concentrations [2], low-temperature growths [4], epitaxial layer designs [5], and quantum structures [6]. Fabrication techniques have also been implemented like the photoconductive antenna (PCA) designs which accelerate excited electrons from one electrode to another in the presence of an electrical bias [7].

Recently, a different THz mechanism was reported by Kampfrath et al., which involves the spin property of the electrons [9]. This opens up spintronics, or spin electronics, in the THz research or possibly vice-versa. The designed emitter source consists of a ferromagnetic, FM, and nonmagnetic, NM, (FM/NM) metal thin film heterostructure. This emitter utilizes the inverse spin-Hall effect (ISHE), a phenomenon that converts the spin current (coming from the FM material) into a transient transverse

