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

Judul Karya Ilmiah (Prosiding)	:	**Effect of Potentials and Electric Charges for Copper and Indium Depositions to the Photocurrent Responses of $CuInS_2$ Thin Films Fabricated by Stack Electrodeposition Followed by Sulfurization**		
Nama/ Jumlah Penulis	:	**Gunawan/4**		
Status Pengusul	:	Penulis ke-1		
Identitas Prosiding	:	a. Judul Prosiding	:	IOP Conference Series: Materials Science and Engineering
		b. ISBN/ISSN	:	17578981 atau 1757899X
		c. Thn Terbit, Tempat Pelaks.	:	2018, Semarang
		d. Penerbit/Organiser	:	IOP Publishing
		e. Alamat Repository/Web	:	https://iopscience.iop.org/journal/1757-899X
		Alamat Artikel	:	https://iopscience.iop.org/article/10.1088/1757-899X/349/1/012074/meta
		f. Terindeks di (jika ada)	:	SJR (Scimago Journal & Country Rank)

Kategori Publikasi Makalah (beri ✓pada kategori yang tepat) : [√] *Prosiding* Forum Ilmiah Internasional
[ ] *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 kemutahiran data/informasi dan metodologi (30%)	9		9
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,5
Total = (100%)	**30**		**29**
Nilai Pengusul =			

Catatan Penilaian artikel oleh Reviewer:

1. **<u>Kesesuaian dan kelengkapan unsur isi jurnal:</u>**
   Artikel yang dimuat sesuai dengan kepakaran penulis. Isi unsur jurnal lengkap sesuai yang dipersyarakan oleh jurnal internasional (IOP Conference Series: Materials Science and Engineering). Dengan similarity 21%.
2. **<u>Ruang lingkup dan kedalaman pembahasan:</u>**
   Ruang lingkup jurnal ini tentang efek potensial dan muatan listrik pada deposisi tembaga dan indium terhadap respon arus foton lapis tipis CuInS2 yang dibuat dari elektrodeposisi bertahap dan sulfurisasi. Pembahasannya cukup mendalam dengan menggunakan instrumentasi pengujian XRD, SEM, EDX dan J-V respons. Pembahasannya disertai referensi yang menguatkan data yang diperoleh.
3. **<u>Kecukupan dan kemutakhiran data/informasi dan metodologi:</u>**
   Data/informasi yang disampaikan cukup baik dan mutakhir dan metodologinya disampaikan secara detil sehingga peneliti lain bisa mengacu penelitian ini. Referensi yang digunakan up to date (16% referensi kurang dari 5 th artikel terbit dari 18 referensi)
4. **<u>Kelengkapan unsur dan kualitas terbitan:</u>**
   Unsur artikel lengkap, kualitas jurnal sangat bagus IOP Conference Series: Materials Science and Engineering, terindek scopus.

Semarang, 25 Juli 2021
Reviewer I

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

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Nama/ Jumlah Penulis	:	**Gunawan/4**		
Status Pengusul	:	Penulis ke-1		
Identitas Prosiding	:	a. Judul Prosiding	:	IOP Conference Series: Materials Science and Engineering
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		Nomor ISBN/ISSN Online		1757899X
		c. Thn Terbit, Tempat Pelaks.	:	2018, Semarang
		d. Penerbit/Organiser	:	IOP Publishing
		e. Alamat Repository/Web	:	https://iopscience.iop.org/journal/1757-899X
		Alamat Artikel	:	https://iopscience.iop.org/article/10.1088/1757-899X/349/1/012074/meta
		f. Terindeks di (jika ada)	:	SJR (Scimago Journal & Country Rank)

Kategori Publikasi Makalah (beri ✓pada kategori yang tepat) : [√] *Prosiding* Forum Ilmiah Internasional
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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 kemutahiran 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 = 0,6x29 = 17,4			

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 IOP Conference Series: Materials Science and Engineering. 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 efek muatan potensial dan listrik pada respon fotocurrent lapis **$CuInS_2$ yang didepositkan Cu dan Indium sengan Stack Electrodeposition yang diikuti dengan Sulfurisasi,** pembahasan penelitian sudah dilakukan dengan cukup mendalam dalam membahas nya dengan instrumen XRD, SEM EDX, beberapa pengujiannya adalah current density vs potensil, ,. (9)
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
   Referensi yang digunakan menunjang pembahasan dan metodologi yang digunakan uptodate (16% referensi dengan tahun terbit sebelum 5 tahun artikel ini terbit (2018) dari 18 jurnal. Metodologi singkat telah ditulis dan dibahas (8,5)
4. **Kelengkapan unsur dan kualitas terbitan:**
   Secara umum kelengkapan unsur artikel lengkap. Kualitas jurnal IOP Conference Series: Journal of Physics: Conference Series yang diterbitkan oleh IOP Publishing terindex di Inspec, Scopus serta scimago dengan SJR 0,192 (2018),(8,5)
   Catatan: Turnitin 21%

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)	:	**Effect of Potentials and Electric Charges for Copper and Indium Depositions to the Photocurrent Responses of $CuInS_2$ Thin Films Fabricated by Stack Electrodeposition Followed by Sulfurization**		
Nama/ Jumlah Penulis	:	**Gunawan/4**		
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		f. Terindeks di (jika ada)	:	SJR (Scimago Journal & Country Rank)

Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat) : [√] *Prosiding* Forum Ilmiah Internasional
[ ] *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%)	8.5	9	8.75
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9	8.5	8.75
d. Kelengkapan unsur dan kualitas penerbit (30%)	8.5	8.5	8.5
Total = (100%)	29	29	29
Nilai untuk Pengusul : 0.6x29=17.4			

Semarang,

Reviewer 1

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

Reviewer 2

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NIP. 197007021996031004
Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Analitik

Document details

IOP Conference Series: Materials Science and Engineering
Volume 349, Issue 1, 2 May 2018, Article number 012074
12th Joint Conference on Chemistry, JCC 2017; Crystall Ballroom, Aston Hotel and Convention CentreSemarang; Indonesia; 19 September 2017 through 20 September 2017; Code 136611

Effect of potentials and electric charges for copper and indium depositions to the photocurrent responses of $CuInS_2$ thin films fabricated by stack electrodeposition followed by sulfurization

(Conference Paper) (Open Access)

Gunawan ✉, Haris, A., Widiyandari, H., Widodo, D.S.

Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University, Semarang, Indonesia

Abstract

View references (18)

Effect of potentials and electric charges of copper and indium depositions to the photocurrent responses of $CuInS_2$ thin film fabricated by electrodeposition followed by sulfurization were investigated. The characterization and elemental compositions of as-deposited Cu/In and $CuInS_2$ thin films used X-RD and EDAX. Photocurrent responses of the obtained $CuInS_2$ thin films were analyzed by linear sweep voltammetry (LSV) in europium solution under chopped irradiation. Photocurrent responses showed that fabricated $CuInS_2$ thin films had p-type photoresponses. Indium deposition on copper was influenced by copper morphology resulted by a certain potential deposition. Increasing potential of indium deposition on copper and electric charge of copper deposition reduced photocurrent for the former but did not change photocurrent of $CuInS_2$ for the latter.

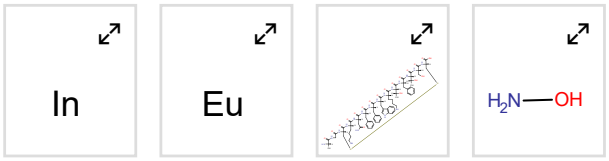
SciVal Topic Prominence

Topic: Thin Film Solar Cells | Indium Sulfide | Chalcopyrite

Prominence percentile: 86.752

Chemistry database information

Substances



Indexed keywords

Engineering controlled terms: Copper compounds | Electric charge | Electrodeposition | Electrodes | Fabrication | Indium | Indium compounds | Photocurrents

Engineering uncontrolled terms: Copper deposition | Copper morphology | CuInS2 thin films | Elemental compositions | Linear sweep voltammetry | Photocurrent response | Photoresponses | Potential deposition

Engineering main heading: Thin films

Funding details

Funding sponsor	Funding number	Acronym
	276-33/UN7.5.1/2017	

Funding text

Financial support From Diponegoro University (No.: 276-33/UN7.5.1/2017), Ministry of Research and Higher Education Republic of Indonesia is acknowledged.

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Materials Science — General Materials Science	#371/460	19th

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JCC12

2017

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19-20 September 2017
Semarang, Indonesia

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2. **Guoping Chen** (National Institute for Materials Science, Japan)
3. **Kasmadi Imam Supardi** (Universitas Negeri Semarang, Indonesia)

Keynote Lectures

1. **Hajime Hirao** (City University of Hongkong, China)
2. **Dian Maruto** (Universitas Sebelas Maret Surakarta, Indonesia)
3. **Khorina Dwi Nugrahaningtyas** (Universitas Sebelas Maret Surakarta, Indonesia)
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Table of contents

Volume 349

2018

Previous issue Next issue

The 12th Joint Conference on Chemistry 19–20 September 2017, Indonesia

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Open all abstracts

Preface

Papers

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Preliminary Study of *Hyptis pectinata* (L.) Poit Extract Biotransformation by *Aspergillus niger*

D S Rejeki, A L N Aminin and M Suzery

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The Initial Comparison Study of Sodium Lignosulfonate, Sodium Dodecyl Benzene Sulfonate, and Sodium p-Toluene Sulfonate Surfactant for Enhanced Oil Recovery

Argo Khoirul Anas, Nurcahyo Iman Prakoso and Dilla Sasvita

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Radical Scavenging Activity From Ethanolic Extract Of Malvaceae Family's Flowers

A N Artanti, N Rahmadanny and F Prihapsara

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Isolation and Identification of Active Compounds from Papaya Plants and Activities as Antimicrobial

A T Prasetya, S Mursiti, S Maryan and N K Jati

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Generic Science Skills Enhancement of Students through Implementation of IDEAL Problem Solving Model on Genetic Information Course

A Zirconia, F M T Supriyanti and A Supriatna

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Development of ultrasonic-assisted extraction of antioxidant compounds from Petai (*Parkia speciosa Hassk.*) leaves

Buanasari, P D Palupi, Y Serang, B Pramudono and S Sumardiono

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Characteristics of eugenol loaded chitosan-tripolyphosphate particles as affected by initial content of eugenol and their in-vitro release characteristic

B Cahyono, Qurrotu A'yun, M Suzery and Hadiyanto

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Development of performance assessment instrument based contextual learning for measuring students laboratory skills

E Susilaningsih, K Khotimah and S Nurhayati

+ Open abstract View article PDF

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Sunlight-assisted synthesis of colloidal silver nanoparticles using chitosan as reducing agent

E Susilowati, Maryani and Ashadi

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The Effect of Cellulose Acetate Concentration from Coconut Nira on Ultrafiltration Membrane Characters

E Vaulina, S Widyaningsih, D Kartika and M P Romdoni

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OPEN ACCESS 012021

Assessment of Drug Binding Potential of Pockets in the NS2B/NS3 Dengue Virus Protein

F Amelia, Iryani, P Y Sari, A A Parikesit, R Bakri, E P Toepak and U S F Tambunan

+ Open abstract View article PDF

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Dynamic adsorption of mixtures of Rhodamine B, Pb (II), Cu (II) and Zn(II) ions on composites chitosan-silica-polyethylene glycol membrane

F W Mahatmanti, W D P Rengga, E Kusumastuti and Nuryono

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Supramolecular assembly of group 11 phosphorescent metal complexes for chemosensors of alcohol derivatives

H O Lintang, N F Ghazalli and L Yuliati

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Chemical characteristics and fatty acid profile of butterfly tree seed oil (*Bauhinia purpurea* L)

H Soetjipto, C A Riyanto and T Victoria

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OPEN ACCESS 012025

Synthesis and Characterization of Diranitidinecopper(II) Sulfate Dihydrate

H Syaima, S B Rahardjo and I M Zein

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Photocatalyst of Perovskite $CaTiO_3$ Nanopowder Synthesized from CaO derived from Snail Shell in Comparison with The Use of CaO and $CaCO_3$

I Fatimah, Y Rahmadianti and R A Pudiasari

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ZrO_2/bamboo leaves ash (BLA) Catalyst in Biodiesel Conversion of Rice Bran Oil

Is Fatimah, Ana Taushiyah, Fitri Badriatun Najah and Ulil Azmi

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Utilization of hydrotalcite modified with 3,4,5-trihydroxybenzoic acid for the treatment of silver-containing wastewater

I Yanti, W F Winata and M Anugrahwati

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Identification and control of unspecified impurity in trimetazidine dihydrochloride tablet formulation

Jefri, A D Puspitasari, J S R Talpaneni and R R Tjandrawinata

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The catalytic activity of CoMo/USY on deoxygenation reaction of anisole in a batch reactor

K D Nugrahaningtyas, I F Putri, E Heraldy and Y Hidayat

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