

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: CONFERENCE PAPER
Bukti artikel: C-28

Judul Karya Ilmiah (Artikel) : Gold (Au) selective adsorption using polyeugenol based ionic imprinted polymer with ethylene glycol dimethacrylate crosslink

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : M Cholid Djunaidi, Nor Basid Adiwibawa Prasetya, Didik Setiyo Widodo, Retno Ariadi Lusiana, Pardoyo

Nama Konferensi : The 14th joint conference on chemistry 2019

Identitas Prosiding

a. Nama Prosiding : AIP Conference Proceedings

b. Nomor ISSN : 0094-243X

c. Volume, No, Tahun : Vol. 2237, No. 1, Tahun 2020

d. Penerbit : AIP Publishing LLC

e. DOI artikel (jika ada) : <https://doi.org/10.1063/5.0005546>

f. URL Jurnal : <https://pubs.aip.org/aip/acp/article-abstract/2237/1/020057/1007360/Gold-Au-selective-adsorption-using-polyeugenol?redirectedFrom=fulltext>

g. Alamat web jurnal : <https://pubs.aip.org/aip/acp/issue/2237/1>

h. Indexing : Google Scholar, Scopus, Scimagojr

Kategori Publikasi Jurnal Ilmiah : ☒ Prosiding internasional terindeks di Scimagojr dan Scopus
 (beri ✓ pada kategori yang tepat) ☐ Prosiding internasional terindeks di Scopus, IEEE Explorer, SPIE
☐ Prosiding internasional
☐ Prosiding Nasional

Hasil Penilaian *Peer Review* :

Komponen yang Dinilai	Nilai Maksimal <i>conference paper</i>	
	Dipublikasi pada Prosiding Internasional terindeks di Scimagojr dan Scopus (30)	
a. Kelengkapan unsur isi jurnal (10%)	3	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9	8,85
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9	8,8
d. Kelengkapan unsur dan kualitas penerbit (30%)	9	8,85
Total = (100%)	30	29,5

Semarang, 24 Mei 2023

Reviewer 1

Reviewer 2



Ismiyarto, S.Si., M.Si., Ph.D.

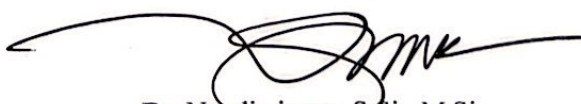
NIP. 196910111997021001

Unit kerja:

Departemen Kimia FSM Undip

Jabatan Fungsional: Lektor Kepala

Bidang Ilmu: Kimia



Dr. Ngadiwiyana, S.Si., M.Si

NIP. 196906201999031002

Unit kerja:

Departemen Kimia FSM Undip

Jabatan Fungsional: Lektor Kepala

Bidang Ilmu: Kimia

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: CONFERENCE PAPER
Bukti artikel: C-28

Judul Karya Ilmiah (Artikel) : Gold (Au) selective adsorption using polyeugenol based ionic imprinted polymer with ethylene glycol dimethacrylate crosslink

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : M Cholid Djunaidi, Nor Basid Adiwibawa Prasetya, Didik Setiyo Widodo, Retno Ariadi Lusiana, Pardoyo

Nama Konferensi : The 14th joint conference on chemistry 2019

Identitas Prosiding

a. Nama Prosiding : AIP Conference Proceedings

b. Nomor ISSN : 0094-243X

c. Volume, No, Tahun : Vol. 2237, No. 1, Tahun 2020

d. Penerbit : AIP Publishing LLC

e. DOI artikel (jika ada) : <https://doi.org/10.1063/5.0005546>

f. URL Jurnal : <https://pubs.aip.org/aip/acp/article-abstract/2237/1/020057/1007360/Gold-Au-selective-adsorption-using-polyeugenol?redirectedFrom=fulltext>

g. Alamat web jurnal : <https://pubs.aip.org/aip/acp/issue/2237/1>

h. Indexing : Google Scholar, Scopus, Scimagojr

Kategori Publikasi Jurnal Ilmiah : ☒ Prosiding internasional terindeks di Scimagojr dan Scopus
 (beri ✓ pada kategori yang tepat) ☐ Prosiding internasional terindeks di Scopus, IEEE Explorer, SPIE
☐ Prosiding internasional
☐ Prosiding Nasional

Hasil Penilaian Peer Review :

Komponen yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	3	3	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	8,8	8,9	8,85
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	8,8	8,8	8,8
d. Kelengkapan unsur dan kualitas penerbit (30%)	8,9	8,8	8,85
Total = (100%)	29,5	29,5	29,5

Semarang, 24 Mei 2023

Reviewer 1

Reviewer 2



Ismiyarto, S.Si., M.Si., Ph.D.
 NIP. 196910111997021001
 Unit kerja:
 Departemen Kimia FSM Undip
 Jabatan Fungsional: Lektor Kepala
 Bidang Ilmu: Kimia



Dr. Ngadiwiyana, S.Si., M.Si
 NIP. 196906201999031002
 Unit kerja:
 Departemen Kimia FSM Undip
 Jabatan Fungsional: Lektor Kepala
 Bidang Ilmu: Kimia

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: CONFERENCE PAPER
Bukti artikel: C-28

Judul Karya Ilmiah (Artikel) : Gold (Au) selective adsorption using polyeugenol based ionic imprinted polymer with ethylene glycol dimethacrylate crosslink

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : M Cholid Djunaedi, Nor Basid Adiwibawa Prasetya, Didik Setiyo Widodo, Retno Ariadi Lusiana, Pardoyo

Nama konferensi : The 14th joint conference on chemistry 2019

Identitas Prosiding

a. Nama Prosiding : AIP Conference Proceedings

b. Nomor ISSN : 0094-243X

c. Volume, No, Tahun : Vol. 2237, No. 1, Tahun 2020

d. Penerbit : AIP Publishing LLC

e. DOI artikel (jika ada) : <https://doi.org/10.1063/5.0005546>

f. URL Prosiding : <https://pubs.aip.org/aip/acp/article-abstract/2237/1/020057/1007360/Gold-Au-selective-adsorption-using-polyeugenol?redirectedFrom=fulltext>

g. Alamat web prosiding : <https://pubs.aip.org/aip/acp/issue/2237/1>

h. Indexing : Google Scholar, Scopus, Scimagojr

Kategori Publikasi Jurnal Ilmiah : ☒ Prosiding internasional terindeks di Scimagojr dan Scopus
 (beri ✓ pada kategori yang tepat) ☐ Prosiding internasional terindeks di Scopus, IEEE Explorer, SPIE
☐ Prosiding internasional
☐ Prosiding Nasional

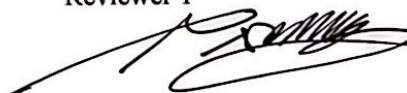
Hasil Penilaian *Peer Review* :

Komponen yang Dinilai	Nilai Maksimal conference paper				Nilai Akhir Yang Diperoleh
	Internasional terindeks di Scimagojr dan Scopus (30)	internasional terindeks di Scopus, IEEE Explorer, SPIE (25)	Prosiding internasional (15)	Prosiding Nasional (10)	
a. Kelengkapan unsur isi makalah (10%)	3				3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9				8,8
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9				8,8
d. Kelengkapan unsur dan kualitas penerbit (30%)	9				8,9
Total = (100%)	30				29,5
Kontribusi Pengusul (Penulis Anggota)	$40\% \times 29,5 : 4 = 2,95$				

Komentar Peer Review:

- a. **Kelengkapan dan kesesuaian unsur:** Penulisan artikel sudah mengikuti author guideline yang berlaku meliputi Title, Introduction, Experimental, Results and Discussion, Conclusion, Acknowledgement, References. Topik dari penelitian sesuai dengan bidang para penulis. Setiap bagian dalam artikel ditulis dengan alur pembahasan yang mengalir dan memiliki relevansi yang baik.
- b. **Ruang lingkup dan kedalaman pembahasan:** Penelitian tentang pemanfaatan imprinted polimer dengan material aktif pembawa berupa polimer turunan eugenol serta pemanfaatannya dalam pemisahan selektif ion logam emas. Proses sintesis polimer dijelaskan secara detail. Proses pemisahan menggunakan membran juga dijelaskan dengan baik. Data hasil uji pemisahan disajikan secara komprehensif. Sebanyak 12 jurnal yang digunakan sebagai referensi menunjukkan bahwa artikel ditulis dengan studi pustaka yang detail
- c. **Kecukupan dan kemutakhiran data/informasi dan metodologi:** Penyajian data ditampilkan dalam 8 figures dan 2 tabel yang dilengkapi dengan pembahasan mendalam sehingga memudahkan pembaca untuk memahami hasil penelitian. Karakterisasi yang dilakukan cukup banyak dan sesuai kebutuhan, yaitu FTIR, SEM, dan TGA-DTA. Sebanyak 85% artikel sebagai rujukan dengan usia tidak lebih dari sepuluh tahun menunjukkan kemutakhiran pembahasan dan rujukan.
- d. **Kelengkapan unsur dan kualitas penerbit:** Artikel ini dipublikasikan pada AIP Conference Proceedings yang diterbitkan oleh AIP Publishing LLC yang terindeks Scopus dan ScimagoJR. Secara keseluruhan tidak ditemukannya kesalahan dalam penulisan menunjukkan bahwa proses editorial dilakukan dengan baik menghasilkan artikel yang berkualitas. Turnitin: 19% mengindikasikan tidak adanya plagiasi dalam paper ini.

Semarang, 23 Mei 2023
Reviewer 1



Ismiyarto, S.Si., M.Si., Ph.D.
NIP. 196910111997021001

Unit kerja :
Departemen Kimia FSM Undip
Jabatan Fungsional: Lektor Kepala
Bidang ilmu: Kimia

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: CONFERENCE PAPER
Bukti artikel: C-28

Judul Karya Ilmiah (Artikel) : Gold (Au) selective adsorption using polyeugenol based ionic imprinted polymer with ethylene glycol dimethacrylate crosslink

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : M Cholid Djunaidi, Nor Basid Adiwibawa Prasetya, Didik Setiyo Widodo, Retno Ariadi Lusiana, Pardoyo

Nama konferensi : The 14th joint conference on chemistry 2019

Identitas Prosiding

a. Nama Prosiding : AIP Conference Proceedings

b. Nomor ISSN : 0094-243X

c. Volume, No, Tahun : Vol. 2237, No. 1, Tahun 2020

d. Penerbit : AIP Publishing LLC

e. DOI artikel (jika ada) : <https://doi.org/10.1063/5.0005546>

f. URL Prosiding : <https://pubs.aip.org/aip/acp/article-abstract/2237/1/020057/1007360/Gold-Au-selective-adsorption-using-polyeugenol?redirectedFrom=fulltext>

g. Alamat web prosiding : <https://pubs.aip.org/aip/acp/issue/2237/1>

h. Indexing : Google Scholar, Scopus, Scimagojr

Kategori Publikasi Jurnal Ilmiah : ☒ Prosiding internasional terindeks di Scimagojr dan Scopus
 (beri ✓ pada kategori yang tepat) ☐ Prosiding internasional terindeks di Scopus, IEEE Explorer, SPIE
☐ Prosiding internasional
☐ Prosiding Nasional

Hasil Penilaian Peer Review :

Komponen yang Dinilai	Nilai Maksimal conference paper				Nilai Akhir Yang Diperoleh
	Internasional terindeks di Scimagojr dan Scopus (30)	internasional terindeks di Scopus, IEEE Explorer, SPIE (25)	Prosiding internasional (15)	Prosiding Nasional (10)	
a. Kelengkapan unsur isi makalah (10%)	3				3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9				8,9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9				8,8
d. Kelengkapan unsur dan kualitas penerbit (30%)	9				8,8
Total = (100%)	30				29,5
Kontribusi Pengusul (Penulis Anggota)	$40\% \times 29,5 : 4 = 2,95$				

Komentar Peer Review:

- a. **Kelengkapan dan kesesuaian unsur:** kesesuaian unsur dari artikel ini sudah lengkap dan sesuai dengan kaidah penulisan jurnal yang mencakup Title, Introduction, Methods, Results and Discussion, Conclusion, dan References. Penulis telah mengikuti author guidelines.
- b. **Ruang lingkup dan kedalaman pembahasan:** Artikel ini memanfaatkan 12 jurnal sebagai referensi yang mengindikasikan bahwa paper ini memiliki pembahasan yang cukup luas dan mendalam. Sebanyak 8 gambar dipaparkan dengan kedalaman informasi yang cukup baik. Pembahasan paper ini mampu memberikan penjelasan tentang efektivitas pemisahan ion logam Au secara selektif menggunakan metode ionic imprinted polymer membrane.
- c. **Kecukupan dan kemutahiran data/informasi dan metodologi:** Metodologi sintesis dan karakterisasi serta uji selektivitas membran telah didesain dengan baik dan data yang diperoleh disajikan cukup baik. Beberapa instrumen seperti FTIR dan SEM serta TGA dipergunakan secukupnya. Referensi pendukung mayoritas terkini dengan usia terbit tidak lebih dari 10 tahun.
- d. **Kelengkapan unsur dan kualitas penerbit:** Similarity indeks dari paper ini sebesar 19% dan secara substansi tidak terindikasikan adanya plagiasi dalam paper ini. Kualitas paper ini juga dapat dilihat dari jumlah referensi yang banyak yang digunakan.

Turnitin: similarity 19%

Semarang, 23 Mei 2023
Reviewer 2



Dr. Ngadiwiyana, S.Si., M.Si
NIP. 196906201999031002

Unit kerja :
Departemen Kimia FSM Undip
Jabatan Fungsional: Lektor Kepala
Bidang ilmu: Kimia

Source details

AIP Conference Proceedings

Scopus coverage years: from 1973 to 1978, from 1983 to 1984, 1993, from 2000 to 2001, from 2003 to Present

ISSN: 0094-243X E-ISSN: 1551-7616

Subject area: Physics and Astronomy: General Physics and Astronomy

Source type: Conference Proceeding

[View all documents >](#)[Set document alert](#) [Save to source list](#)

CiteScore 20210.8 ⓘ

SJR 20210.189 ⓘ

SNIP 20210.262 ⓘ

CiteScoreCiteScore rank & trendScopus content coverage

 Improved CiteScore methodology

CiteScore 2021 counts the citations received in 2018-2021 to articles, reviews, conference papers, book chapters and data papers published in 2018-2021, and divides this by the number of publications published in 2018-2021. [Learn more >](#)



CiteScore 2021 

0.8 = $\frac{34,444 \text{ Citations 2018 - 2021}}{43,453 \text{ Documents 2018 - 2021}}$

Calculated on 05 May, 2022

CiteScoreTracker 2022 ⓘ

0.7 = $\frac{31,680 \text{ Citations to date}}{43,416 \text{ Documents to date}}$

Last updated on 05 April, 2023 • Updated monthly

CiteScore rank 2021 ⓘ

Category	Rank	Percentile
Physics and Astronomy		
General Physics and Astronomy	#194/240	19th

[View CiteScore methodology >](#)[CiteScore FAQ >](#)[Add CiteScore to your site !\[\]\(5d954b3e270654ad8ab0d5913161c03c_img.jpg\)](#)

Preface: The 14th joint conference on chemistry 2019

Cite as: AIP Conference Proceedings **2237**, 010001 (2020); <https://doi.org/10.1063/12.0000415>
Published Online: 02 June 2020



[View Online](#)



[Export Citation](#)

ARTICLES YOU MAY BE INTERESTED IN

[Committees: The 14th Joint Conference on Chemistry 2019](#)

AIP Conference Proceedings **2237**, 010002 (2020); <https://doi.org/10.1063/12.0000669>

[Photos: The 14th Joint Conference on Chemistry 2019](#)

AIP Conference Proceedings **2237**, 010003 (2020); <https://doi.org/10.1063/12.0000584>

[Preface: The 8th International Conference of the Indonesian Chemical Society 2019](#)

AIP Conference Proceedings **2243**, 010001 (2020); <https://doi.org/10.1063/12.0000228>

Lock-in Amplifiers
up to 600 MHz



Preface: The 14th Joint Conference on Chemistry 2019

Thank you very much for this opportunity to hold the international conference of JCC 14 on 10-11 September 2019, by Chemistry Department, Faculty of Math and Natural Science, Universitas Sebelas Maret. This JCC conference is as annually program of the consortium of five chemistry departments in the region of Middle Java (Universitas Sebelas Maret, Universitas Diponegoro, Universitas Jenderal Sudirman, Universitas Negeri Semarang, Universitas Kristen Satya Wacana) and a guest member from Malaysia (Universitas Malaysia Sabah)

On the behalf of organizing committee of JCC 2019, I appreciate to all participants to meet in this scientific conference on chemistry 2019, 14th JCC. It was my pleasure to facilitate the ideas in development of chemistry and education chemistry within the region of middle Java also worldwide. I expect that our conference gives good impact to the chemist society not only in the region but in the world through the scientific ideas or publications outcoming from this conference. Besides, I hope that our collaboration can be intensively done by joint research between the members of this consortium in the near future.

I would like to thank to Scientific Committee for the publishing articles of the proceeding of the 14th JCC conference in AIP publishing.

Surakarta, 20 December 2019

Dr. rer.nat. Atmanto Heru Wibowo, S.Si., M.Si
Chairman of JCC 2019
<https://jcc.uns.ac.id/>

Issues

Select
Decade

2020 ▼

Select
Year

2020 ▼

Issue

2 June - Volume 2237, Issue 1 ▼

PRELIMINARY

Preface: The 14th joint conference on chemistry 2019 🛒

AIP Conference Proceedings 2237, 010001 (2020) doi: <https://doi.org/10.1063/12.0000415>

[View article](#)

[PDF](#)

Committees: The 14th Joint Conference on Chemistry 2019 🛒

AIP Conference Proceedings 2237, 010002 (2020) doi: <https://doi.org/10.1063/12.0000669>

[View article](#)

[PDF](#)

Photos: The 14th Joint Conference on Chemistry 2019 🛒

AIP Conference Proceedings 2237, 010003 (2020) doi: <https://doi.org/10.1063/12.0000584>

[View article](#)[PDF](#)

ARTICLES

Kinetic study of methylene blue photocatalytic decolorization using zinc oxide under UV-LED irradiation 🛒

[Riki Subagyo](#); [Yuly Kusumawati](#); [Wahyu Bambang Widayatno](#)

AIP Conference Proceedings 2237, 020001 (2020) doi: <https://doi.org/10.1063/5.0005263>

[Abstract](#) ▾[View article](#)[PDF](#)

Fenton reaction involvement on methyl orange biodegradation by brown-rot fungus *Gloeophyllum trabeum* 🛒

[Adi Setyo Purnomo](#); [Nur Elis Agustina Andyani](#); [Refdinal Nawfa](#); [Surya Rosa Putra](#)

AIP Conference Proceedings 2237, 020002 (2020) doi: <https://doi.org/10.1063/5.0005230>

[Abstract](#) ▾[View article](#)[PDF](#)

Metal phase and electron density of transition metal/HZSM-5 🛒

[Khoirina Dwi Nugrahaningtyas](#); [Marita Maharani Putri](#); [Teguh Endah Saraswati](#)

AIP Conference Proceedings 2237, 020003 (2020) doi: <https://doi.org/10.1063/5.0005561>

[Abstract](#) ▾[View article](#)[PDF](#)

Renewable energy from sediment microbial fuel cell technology from Kendari Bay swamp sediments 🛒

Ahmad Zaeni; Prima Endang Susilowati; Alwahab; La Ode Ahmad

AIP Conference Proceedings 2237, 020004 (2020) doi: <https://doi.org/10.1063/5.0011271>

[Abstract ▾](#)[View article](#)[PDF](#)

Synthesis and characterization of unsymmetrically branched alkyl chains carbazole-based polymer 🛒

Mohd Sani Sarjadi; Shu Er Tan; Xin Lin Wong; Farah Hannan Anuar; Md. Shaheen Sarkar; Md. Lutfur Rahman

AIP Conference Proceedings 2237, 020005 (2020) doi: <https://doi.org/10.1063/5.0005389>

[Abstract ▾](#)[View article](#)[PDF](#)

Synthesis of magnetite@SILICA-CTA in a *cetyl trimethyl ammonium bromide* (CTAB) concentration variations for fenol adsorption 🛒

Choiril Azmiyawati; F. A. Yamin; A. Darmawan; L. Suyati

AIP Conference Proceedings 2237, 020006 (2020) doi: <https://doi.org/10.1063/5.0005717>

[Abstract ▾](#)[View article](#)[PDF](#)

Study of Rhodamine B adsorption onto activated carbon from spent coffee grounds 🛒

Teguh Wirawan; Soerja Koesnarpadi; Nanang Tri Widodo

AIP Conference Proceedings 2237, 020007 (2020) doi: <https://doi.org/10.1063/5.0005610>

[Abstract](#) [View article](#) [PDF](#)

Photodegradation of phenol in batik wastewater with copper (II) oxide under visible light illumination

[Tien Setyaningtyas](#); [Kapti Riyani](#); [Cherly Firdharini](#)

AIP Conference Proceedings 2237, 020008 (2020) doi: <https://doi.org/10.1063/5.0005354>

[Abstract](#) [View article](#) [PDF](#)

Curing characteristics and mechanical properties of wasted crumb rubber-styrene butadiene rubber binary blends using bio based softener

[Rahmaniar](#); [Aprillena Tornadez Bondan](#); [Tri Susanto](#)

AIP Conference Proceedings 2237, 020009 (2020) doi: <https://doi.org/10.1063/5.0005226>

[Abstract](#) [View article](#) [PDF](#)

Activation of carbon from rice husk using chemical activating agents and physical treatments as sodium lauryl sulfate adsorbent

[Arnelli](#); [Laila N. Mastuti](#); [Aulia D. Arini](#); [Yayuk Astuti](#)

AIP Conference Proceedings 2237, 020010 (2020) doi: <https://doi.org/10.1063/5.0008302>

[Abstract](#) [View article](#) [PDF](#)

Imprinted zeolite modified carbon paste electrode as a selective potentiometric sensor for blood glucose 🛒

Miratul Khasanah; Alfa Akustia Widati; Usreg Sri Handajani; Masfah Raudlotus Shofiyah; Sabrina Aulia Rakhma; Herwin Predianto

AIP Conference Proceedings 2237, 020011 (2020) doi: <https://doi.org/10.1063/5.0005231>

[Abstract](#) ▾[View article](#)[PDF](#)

Optimization of supersaturated solution from *stevia rebaudiana* water extract lead to crystal nucleation 🛒

Yohanes Martono; Yohanes Difto Adiwibowo; November Rianto Aminu

AIP Conference Proceedings 2237, 020012 (2020) doi: <https://doi.org/10.1063/5.0005667>

[Abstract](#) ▾[View article](#)[PDF](#)

Determination of glucose content with a concentration within the physiological range by FT-NIR spectroscopy in a trans-reflectance mode 🛒

Ferdy S. Rondonuwu; Andreas Setiawan

AIP Conference Proceedings 2237, 020013 (2020) doi: <https://doi.org/10.1063/5.0008552>

[Abstract](#) ▾[View article](#)[PDF](#)

Effect of acidic level (pH) of red dragon fruit (*Hylocereus costaricensis*) peels extract on DSSC efficiency 🛒

P. Faqih; F. Nurosyid; T. Kusumaningsih

AIP Conference Proceedings 2237, 020014 (2020) doi: <https://doi.org/10.1063/5.0005686>

[Abstract](#) [View article](#) [PDF](#)

Larvicidal potential of *Lantana camara* as bio larvicidal for *Aedes aegypti* 3rd instar larvae

[November Rianto Aminu](#); [Ribka Dewi Kristiana](#); [Sri Hartini](#); [Hartati Soetjipto](#)

AIP Conference Proceedings 2237, 020015 (2020) doi: <https://doi.org/10.1063/5.0005207>

[Abstract](#) [View article](#) [PDF](#)

Adsorption of cibacet yellow and cibacet red from aqueous solution onto activated carbon from annatto peels (*Bixa orellana* L.)

[C. A. Riyanto](#); [Y. S. Widodo](#); [M. S. Ampri](#); [E. Prabalaras](#); [A. Sudibya](#); [Y. A. Putra](#); [I. G. K. A. Kameswara](#); [F. T. W. Hananto](#)

AIP Conference Proceedings 2237, 020016 (2020) doi: <https://doi.org/10.1063/5.0005372>

[Abstract](#) [View article](#) [PDF](#)

Effect of working electrode thickness using binahong leaves (*Anredera cordifolia*) dye to the efficiency of dye-sensitized solar cell (DSSC)

[B. Y. Muryani](#); [F. Nurosyid](#); [Kusumandari](#)

AIP Conference Proceedings 2237, 020017 (2020) doi: <https://doi.org/10.1063/5.0005688>

[Abstract](#) [View article](#) [PDF](#)

A novel synthesis of 1,1'-(2,4,6-trihydroxy-1,3-phenylene)bis(ethan-1-one) (DAPG) using $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ as a green catalyst

[Carissa Hertiningtyas](#); [Triana Kusumaningsih](#); [Maulidan Firdaus](#)

AIP Conference Proceedings 2237, 020018 (2020) doi: <https://doi.org/10.1063/5.0005344>

[Abstract](#) [View article](#)[PDF](#) 

RGO-NiCo₂S₄ composite as a counter electrode for solid-state DSSC system with CuI as an electrolyte

[Qonita Awliya Hanif](#); [Sayekti Wahyuningsih](#); [Ari Handono Ramelan](#)

AIP Conference Proceedings 2237, 020019 (2020) doi: <https://doi.org/10.1063/5.0009131>

[Abstract](#) [View article](#)[PDF](#) 

Biodiesel production using palm fatty acid distillate and rice husk silica supported NiSO₄ as catalyst

[Noor Hindryawati](#); [Nanang Tri Widodo](#); [Moh. Syaiful Arief](#); [Irfan Ashari Hiyahara](#); [Gaanty Pragas Maniam](#)

AIP Conference Proceedings 2237, 020020 (2020) doi: <https://doi.org/10.1063/5.0005557>

[Abstract](#) [View article](#)[PDF](#) 

Esterification of oxidized ricinoleic acid with various alcohols to produce emulsifier and antimicrobial compounds

[Atika Nabilah](#); [Sri Handayani](#); [Siswati Setiasih](#); [Dyah Utami Cahyaning Rahayu](#); [Sumi Hudiyono](#)

AIP Conference Proceedings 2237, 020021 (2020) doi: <https://doi.org/10.1063/5.0005809>

[Abstract](#) [View article](#)[PDF](#) 

Nanoparticles Fe₃O₄ modified chitosan and its antibacterial applications 🛒

[Soerja Koesnarpadi](#); [Winni Astuti](#); [Ika Yekti Lianasari](#)

AIP Conference Proceedings 2237, 020022 (2020) doi: <https://doi.org/10.1063/5.0005693>

[Abstract](#) ▾[View article](#)[PDF](#)

Synthesis of hydroxylated azomethine compounds and the antioxidant activity 🛒

[Nova Rifqi Rahmawati](#); [Ngadiwiyanana](#); [Nor Basid Adiwibawa Prasetya](#); [Purbowatingrum Ria Sarjono](#); [Yosie Andriani](#); [Desy Fitriya Syamsumir](#); [Ismiyarto](#)

AIP Conference Proceedings 2237, 020023 (2020) doi: <https://doi.org/10.1063/5.0005806>

[Abstract](#) ▾[View article](#)[PDF](#)

Synthesis of salicylic acid modified magnetite nanoparticles and its application in wastewater treatment 🛒

[Thutug Rahardiant Primadi](#); [Fauziatul Fajaroh](#); [Syaiful Bahri](#); [Nazriati](#); [Aman Santoso](#); [Endang Ciptawati](#); [Adrian Nur](#)

AIP Conference Proceedings 2237, 020024 (2020) doi: <https://doi.org/10.1063/5.0005360>

[Abstract](#) ▾[View article](#)[PDF](#)

Modification of synthetic carpet using chitosan-titania nanocomposite for anti-bacterial and anti-odor purposes 🛒

[Mohamad Iman Sulaeman](#); [M. Ibadurrohman](#); [Slamet](#)

AIP Conference Proceedings 2237, 020025 (2020) doi: <https://doi.org/10.1063/5.0005257>

[Abstract](#) ▾[View article](#)[PDF](#)

Development of nanofluid biodegradable detergent from palm kernel oil and TiO_2 🛒

Reysa Anggraini Vestiana Putri; Muhammad Ibadurrohman; Slamet

AIP Conference Proceedings 2237, 020026 (2020) doi: <https://doi.org/10.1063/5.0005258>

[Abstract ▾](#)[View article](#)[📄 PDF](#)

Preparation of activated carbon from *Calophyllum inophyllum* seed using different activating agents: Comparison study 🛒

Nur Izzati Machrita; Kartika A. Madurani; Suprpto; M. Luki Kurniawan; Yulianto Adi Nugroho; Fredy Kurniawan

AIP Conference Proceedings 2237, 020027 (2020) doi: <https://doi.org/10.1063/5.0005659>

[Abstract ▾](#)[View article](#)[📄 PDF](#)

Synthesis and characterization of tetrasulfapyridine-copper(II) sulfate trihydrate 🛒

Sentot Budi Rahardjo; Husna Syaima; Yuniar Dwi Andrieza; Witri Wahyu Lestari; Abu Masykur

AIP Conference Proceedings 2237, 020028 (2020) doi: <https://doi.org/10.1063/5.0005340>

[Abstract ▾](#)[View article](#)[📄 PDF](#)

Preparation of starch-graft-acrylic acid/bentonite composite gel 🛒

Kaeksi Sekar Arum; Enggar Candra Prastiti; Prida Novarita Trisanti; Sumarno

AIP Conference Proceedings 2237, 020029 (2020) doi: <https://doi.org/10.1063/5.0006169>

[Abstract ▾](#)[View article](#)[📄 PDF](#)

Identification of natural product compounds as NS5 RDRP inhibitor for dengue virus serotype 1-4 through in silico analysis 🛒

[Hersal Hermana Putra](#); [Mutiaras Saragih](#); [Yulianti](#); [Usman Sumo Friend Tambunan](#)

AIP Conference Proceedings 2237, 020030 (2020) doi: <https://doi.org/10.1063/5.0005236>

[Abstract](#) ▾

[View article](#)

 [PDF](#)

Flexible molecular docking simulation of peptide compounds as inhibitor of Glul host protein for dengue fever therapy 🛒

[Filia Stephanie](#); [Ahmad Husein Alkaff](#); [Usman Sumo Friend Tambunan](#)

AIP Conference Proceedings 2237, 020031 (2020) doi: <https://doi.org/10.1063/5.0005237>

[Abstract](#) ▾

[View article](#)

 [PDF](#)

The synthesis of surfactant by alcoholysis between glyceryl trilaurate and n-amyl alcohol 🛒

[Daniel](#)

AIP Conference Proceedings 2237, 020032 (2020) doi: <https://doi.org/10.1063/5.0005692>

[Abstract](#) ▾

[View article](#)

 [PDF](#)

Study on the ion-exchange properties of the activated carbon black nanoparticles of ACBNPs20_17 code using sodium hydroxide solution 🛒

[Pratama Jujur Wibawa](#); [Muhammad Nur](#); [Muhammad Asy'ari](#); [Hadi Nur](#); [Mohd. Arif Agam](#); [Hashim Saim](#)

AIP Conference Proceedings 2237, 020033 (2020) doi: <https://doi.org/10.1063/5.0005234>

[Abstract](#) [View article](#) [PDF](#)

The effect of zeolite addition and freeze-drying method on alginat beads for controlled release fertilizer

[Adhitasari Suratman](#); [Nurul Pramita](#); [Pradiya Nadya Agasta](#); [Dwi Ratih Purwaningsih](#); [Agus Kuncaka](#); [Eko Sri Kunarti](#); [Atmanto Heru Wibowo](#)

AIP Conference Proceedings 2237, 020034 (2020) doi: <https://doi.org/10.1063/5.0005798>

[Abstract](#) [View article](#) [PDF](#)

Chemical composition and antioxidant activities of citronella essential oil *Cymbopogon nardus* (L.) rendle fractions

[Undri Rastuti](#); [Hartiwi Diastuti](#); [Moch. Chasani](#); [Purwati](#); [Rafly Hidayatullah](#)

AIP Conference Proceedings 2237, 020035 (2020) doi: <https://doi.org/10.1063/5.0005685>

[Abstract](#) [View article](#) [PDF](#)

Initial study on the synthesis of 1-(4'-isopropilbenzil)-1,10-phenanthroline bromide from cuminy alcohol, a potent antimalarial

[Maulidan Firdaus](#); [Soerya Dewi Marliyana](#); [Muhammad Fajar Razak](#)

AIP Conference Proceedings 2237, 020036 (2020) doi: <https://doi.org/10.1063/5.0005341>

[Abstract](#) [View article](#) [PDF](#)

Freundlich adsorption isotherm in the perspective of chemical kinetics (II); rate law approach

[Patiha](#); [Maulidan Firdaus](#); [Fitria Rahmawati](#); [Sayekti Wahyuningsih](#); [Triana Kusumaningsih](#)

AIP Conference Proceedings 2237, 020037 (2020) doi: <https://doi.org/10.1063/5.0005342>

[Abstract](#) [View article](#)[PDF](#) 

Synthesis and spectra study of Cu (II), Fe (II), Zn (II)-5,15-diphenyl porphyrin

[Atmanto Heru Wibowo](#); [Metin Yuliaty](#); [Abu Masykur](#); [Suyitno](#); [Desi Suci Handayani](#); [Dian Maruto Widjonarko](#); [Maulidan Firdaus](#); [Ari Yustisia](#); [Takuji Ogawa](#)

AIP Conference Proceedings 2237, 020038 (2020) doi: <https://doi.org/10.1063/5.0005553>

[Abstract](#) [View article](#)[PDF](#) 

Forward osmosis membrane to produce water energy drink from seawater

[Saiful](#); [Aida Afriyanti](#); [Marlina](#); [Muliadi Ramli](#); [Abu Masykur](#)

AIP Conference Proceedings 2237, 020039 (2020) doi: <https://doi.org/10.1063/5.0005201>

[Abstract](#) [View article](#)[PDF](#) 

Reusability study of fenton catalyst@bacterial celluloses for removal of methylene blue as synthetic dyes model

[Husaini Ardy](#); [Fakhri Arsyi Hawari](#); [Ade Wahyu Y. P. Parmita](#); [Untung Triadi](#); [Azhar Isti Hanifah](#); [Arie Wibowo](#)

AIP Conference Proceedings 2237, 020040 (2020) doi: <https://doi.org/10.1063/5.0005229>

[Abstract](#) [View article](#)[PDF](#) 

Effect of phosphate ion on sorption of Nd(III) ion from aqueous solution using ion imprinted polymers 🛒

Muhammad Ali Zulfikar; Sri Wahyuni; Muhammad Yudhistira Azis; Muhammad Bachri Amran; Handajaya Rusli; Henry Setiyanto

AIP Conference Proceedings 2237, 020041 (2020) doi: <https://doi.org/10.1063/5.0005598>

[Abstract ▾](#)[View article](#)[PDF](#)

Aging resistance and functional group analysis of natural rubber/oil palm empty fruit bunch charcoal composites 🛒

Hari Adi Prasetya; Popy Marlina; Rochmi Widjajanti

AIP Conference Proceedings 2237, 020042 (2020) doi: <https://doi.org/10.1063/5.0005338>

[Abstract ▾](#)[View article](#)[PDF](#)

Determination of the optimum composition to produce minimum particle size of β -carotene microencapsulated in acid hydrolyzed starch-chitosan/TPP (tripolyphosphate) matrices using Taguchi method 🛒

Agnes Dyah Novitasari Lestari; Mudasir; Dwi Siswanta; Ronny Martien

AIP Conference Proceedings 2237, 020043 (2020) doi: <https://doi.org/10.1063/5.0005249>

[Abstract ▾](#)[View article](#)[PDF](#)

The effect of coconut shell activated charcoal on vulcanization and morphology behaviour in natural rubber starch modified 🛒

Popy Marlina; Hari Adi Prasetya; Bambang Sugiyono; Rochmi Widjajanti

AIP Conference Proceedings 2237, 020044 (2020) doi: <https://doi.org/10.1063/5.0005337>

[Abstract](#) [View article](#) [PDF](#)

Synthesis and characterization of chitosan based super absorbent polymer modified with acrylic acid and acrylonitrile for Pb (II) metal ions removal from water

[F. Widhi Mahatmanti](#); [Harjono](#); [Izzatun Niswah Assa'idah](#)

AIP Conference Proceedings 2237, 020045 (2020) doi: <https://doi.org/10.1063/5.0005748>

[Abstract](#) [View article](#) [PDF](#)

Hybrid PVA/alginate for extended delivery of antibiotic

[Michael](#); [Julietta Lady](#); [Eko Adi Prasetyanto](#)

AIP Conference Proceedings 2237, 020046 (2020) doi: <https://doi.org/10.1063/5.0005241>

[Abstract](#) [View article](#) [PDF](#)

Synthesis of N'-(3-trimethoxysilylpropyl)diethylentriamine modified silica ($\text{SiO}_{2(\text{RHA})}$ -TMPDT) for adsorption of gold(III)

[Sri Hastuti](#); [S. Wahyuningsih](#); [T. Martini](#); [E. N. Fajariani](#); [I. K. Candraningrum](#)

AIP Conference Proceedings 2237, 020047 (2020) doi: <https://doi.org/10.1063/5.0008267>

[Abstract](#) [View article](#) [PDF](#)

Methyl red dye-sensitized zinc oxide as photocatalyst for phenol degradation under visible light

[Wynona A. Nimpoeno](#); [Hendrik O. Lintang](#); [Leny Yuliaty](#)

AIP Conference Proceedings 2237, 020048 (2020) doi: <https://doi.org/10.1063/5.0005797>

[Abstract](#) [View article](#) [PDF](#)

Crystalline carbon nitride for photocatalytic phenol degradation: Effect of precursor and salt melt amounts

[Leny Yuliati](#); [Mohd Hayrie Mohd Hatta](#); [Siew Ling Lee](#); [Hendrik O. Lintang](#)

AIP Conference Proceedings 2237, 020049 (2020) doi: <https://doi.org/10.1063/5.0005795>

[Abstract](#) [View article](#) [PDF](#)

Synthesis of CuO-TiO₂ nano-composite for *Escherichia coli* disinfection and toluene degradation

[Jessica Farah](#); [M. Ibadurrohman](#); [Slamet](#)

AIP Conference Proceedings 2237, 020050 (2020) doi: <https://doi.org/10.1063/5.0005260>

[Abstract](#) [View article](#) [PDF](#)

Adsorption of Au(III) on diethylenetriamine-functionalized silica coated on iron sand magnetic material

[Fahmiati](#); [Alrum Armid](#); [Suyanta](#); [Nuryono](#)

AIP Conference Proceedings 2237, 020051 (2020) doi: <https://doi.org/10.1063/5.0005579>

[Abstract](#) [View article](#) [PDF](#)

Decolourization of methylene blue by NiO/ZSM-5 photocatalyst under UV-LED irradiation 𐄂

[Garcelina Rizky Anindika](#); [Yuly Kusumawati](#); [Didik Prasetyoko](#); [Wahyu Bambang Widayatno](#); [Abdul Hamid](#)

AIP Conference Proceedings 2237, 020052 (2020) doi: <https://doi.org/10.1063/5.0005268>

[Abstract](#) ▾[View article](#)[PDF](#)

Isolation, characterization, and identification of endophytic bacteria by 16S rRNA partial sequencing technique from leaves of *carica papaya* and its potential as an antioxidant 𐄂

[Purbowatiningrum Ria Sarjono](#); [Qisthy Hanifati Hazrina](#); [Anggit Saputra](#); [Nies Suci Mulyani](#); [Agustina Lulustyaningati Nurul Aminin](#); [Ngadiwiyana](#); [Ismiyarto](#); [Dewi Kusrini](#); [Nor Basid Adiwibawa Prasetya](#)

AIP Conference Proceedings 2237, 020053 (2020) doi: <https://doi.org/10.1063/5.0005715>

[Abstract](#) ▾[View article](#)[PDF](#)

Properties of starch biofoam reinforced with microcrystalline cellulose from banana stem fiber 𐄂

[Syahrul Fatrozi](#); [Linda Purwanti](#); [Sandra Kartika Sari](#); [Muhammad Naufal Ariesta](#); [Soerya Dewi Marliyana](#)

AIP Conference Proceedings 2237, 020054 (2020) doi: <https://doi.org/10.1063/5.0005254>

[Abstract](#) ▾[View article](#)[PDF](#)

Thermal stability study of commercial lube oil at moderate temperature and long working period 𐄂

[Husaini Ardy](#); [Azhar Isti Hanifah](#); [Arie Wibowo](#)

AIP Conference Proceedings 2237, 020055 (2020) doi: <https://doi.org/10.1063/5.0005275>

[Abstract](#) ▾[View article](#)[PDF](#)

Analysis of chemical profile and antibacterial activity of secondary metabolites of endophytic fungi from *Annona squamosa* L. from Timor Island-Eastern Indonesia 🛒

Antonius R. B. Ola

AIP Conference Proceedings 2237, 020056 (2020) doi: <https://doi.org/10.1063/5.0005214>

[Abstract](#) ▾[View article](#)[PDF](#)

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

M. Cholid Djunaidi; Nor Basid Adiwibawa Prasetya; Didik Setiyo Widodo; Retno Ariadi Lusiana; Pardoyo

AIP Conference Proceedings 2237, 020057 (2020) doi: <https://doi.org/10.1063/5.0005546>

[Abstract](#) ▾[View article](#)[PDF](#)

Synthesis of molecularly imprinted polymer urea based on polyeugenol with ethylene glycol dimethacrylate as crosslinking agent 🛒

M. Cholid Djunaidi; Arifatul Azizah; Gunawan

AIP Conference Proceedings 2237, 020058 (2020) doi: <https://doi.org/10.1063/5.0005544>

[Abstract](#) ▾[View article](#)[PDF](#)

The comparison of nitroxide radical derivative compound interaction with brookite and anatase surface: A guide to choose the best photoanode for DSSC application 🛒

Yuly Kusumawati; Leli D. Astuti; Eko Santoso; Syafsir Akhlus

AIP Conference Proceedings 2237, 020059 (2020) doi: <https://doi.org/10.1063/5.0005271>

[Abstract](#) [View article](#) [PDF](#)

In-vivo acute toxicological studies of *Vasconcellea pubescens* A. DC. fruit extract against hepatic injury

[Heru Sasongko](#); [Arifin Wicaksono](#); [Sugiyarto](#)

AIP Conference Proceedings 2237, 020060 (2020) doi: <https://doi.org/10.1063/5.0005224>

[Abstract](#) [View article](#) [PDF](#)

Optimization of Suweg starch (*Amorphophallus paeoniifolius* (Dennst.) Nicolson) and lactose as *co-processed excipient* of Ibuprofen-PEG 6000 solid dispersion of effervescent tablet

[Dian Eka Ermawati](#); [Bimar Putri Andini](#); [Fea Prihapsara](#); [Yeni Farida](#); [Sholichah Rohmani](#); [Wisnu Kundarto](#); [Estu Retnaningtyas Nugraheni](#)

AIP Conference Proceedings 2237, 020061 (2020) doi: <https://doi.org/10.1063/5.0005632>

[Abstract](#) [View article](#) [PDF](#)

Developing formula of SNEDDS (*self nano emulsifying drug delivery system*) antihypertensive herbals “Hortus Medicus”

[Dian Eka Ermawati](#); [Roro Karina Pambudi](#); [Vinda Aviwiandari](#); [Yeni Farida](#); [Sholichah Rohmani](#); [Wisnu Kundarto](#); [Estu Retnaningtyas Nugraheni](#)

AIP Conference Proceedings 2237, 020062 (2020) doi: <https://doi.org/10.1063/5.0005630>

[Abstract](#) [View article](#) [PDF](#)

Optimization of hydroxymethylcellulose and sodium CMC of transdermal patch of antihypertension “Hortus Medicus” and transport through membrane using franz diffusion cell method 𐄂

[Dian Eka Ermawati](#); [Dyah Ayu Ambarwati](#); [Niken Rosyana Dewi](#); [Anif Nur Artanti](#); [Sholichah Rohmani](#); [Wisnu Kundarto](#)

AIP Conference Proceedings 2237, 020063 (2020) doi: <https://doi.org/10.1063/5.0005628>

[Abstract](#) 𐄂[View article](#)[PDF](#)

Liposomes from jack beans phospholipid extract for delivering vitamin C 𐄂

[Dwi Hudiyaniti](#); [Ratna Indria Sari](#); [Aditya Putri Arya](#); [Parsaoran Siahaan](#)

AIP Conference Proceedings 2237, 020064 (2020) doi: <https://doi.org/10.1063/5.0005213>

[Abstract](#) 𐄂[View article](#)[PDF](#)

The effect of methyltriethoxysilane (MTES) concentration on hydrophobic properties of silica thin layer 𐄂

[Lucky Diana Mustika](#); [Choiril Azmiyawati](#); [Adi Darmawan](#)

AIP Conference Proceedings 2237, 020065 (2020) doi: <https://doi.org/10.1063/5.0005240>

[Abstract](#) 𐄂[View article](#)[PDF](#)

Synthesis zeolite y from kaolin: Activation of metakaolin with various concentration of sulfuric acid and its application for esterification 𐄂

[Leli Endah Safitri](#); [Ulul Khairi Zuryati](#); [Hannis Nur Rohma](#); [Yatim Lailun Ni'mah](#); [Didik Prasetyoko](#)

AIP Conference Proceedings 2237, 020066 (2020) doi: <https://doi.org/10.1063/5.0005581>

[Abstract](#) 𐄂[View article](#)[PDF](#)

Synthesis of phenylcalix[4]resorcinarene sulfonate and it's aplication as an antioxidant 𐄂

[Santi Nur Handayani](#); [Heny Ekowati](#); [Irmanto](#); [Della Nadya Ayu Aprilia](#); [Silva Utami](#)

AIP Conference Proceedings 2237, 020067 (2020) doi: <https://doi.org/10.1063/5.0006139>

[Abstract](#) ▾[View article](#)[PDF](#)

The electronic properties study of betanin and their derivatives compound: An explanation to betanin limitation in DSSC application 𐄂

[Zulfa H. Damayanti](#); [Garcelina R. Anindika](#); [Eko Santoso](#); [Syafsir Akhlus](#); [Yuly Kusumawati](#)

AIP Conference Proceedings 2237, 020068 (2020) doi: <https://doi.org/10.1063/5.0005274>

[Abstract](#) ▾[View article](#)[PDF](#)

Anthocyanin from butterfly pea flowers (*Clitoria ternatea*) by ultrasonic-assisted extraction 𐄂

[Achmad Qodim Syafa'atullah](#); [Arie Amira](#); [Sonya Hidayati](#); [Mahfud Mahfud](#)

AIP Conference Proceedings 2237, 020069 (2020) doi: <https://doi.org/10.1063/5.0005289>

[Abstract](#) ▾[View article](#)[PDF](#)

Synthesis and characterization of carbonaceous-based nanomaterials produced in chemical vapor deposition (CVD) using copper catalyst 𐄂

[Teguh Endah Saraswati](#); [Ayu Dwi Priyanti](#); [Oktaviana Dewi Indah Prasiwi](#)

AIP Conference Proceedings 2237, 020070 (2020) doi: <https://doi.org/10.1063/5.0005445>

[Abstract](#) ▾[View article](#)[PDF](#)

Preparation of NaFeO₂ from iron sand as a raw material for cathode of sodium-ion battery 𐄂

Fitria Rahmawati; Arum A. Kusumaningtyas; Teguh E. Saraswati; Iwan Yahya; Younki Lee

AIP Conference Proceedings 2237, 020071 (2020) doi: <https://doi.org/10.1063/5.0005348>

[Abstract](#) 𐄂[View article](#)[PDF](#)

Chemical interaction analysis of L-Theanine compounds from *Camellia sinensis* L. with kainate glutamate receptors and their toxicity effect as anti autism candidates based on in silico 𐄂

Mohamad Amin; Nanda Hilda Khikmawati; Suryadi; Ihya Fakhurizal Amin; Kodama Yayoi; Atmanto Heru Wibowo; Dina Maulina; Indriyani Rachman

AIP Conference Proceedings 2237, 020072 (2020) doi: <https://doi.org/10.1063/5.0008500>

[Abstract](#) 𐄂[View article](#)[PDF](#)

Synthesis, anticancer activity, and apoptosis mechanism of some chalcone derivatives 𐄂

Hery Suwito; Helda Dwi Hardiyanti; Kautsar ul Haq; Alfinda Novi Kristanti; Umrotul Furghoniyyah; Aprillia Noni Rahmawati; Diwyareta Ristya Ayuningtyas

AIP Conference Proceedings 2237, 020073 (2020) doi: <https://doi.org/10.1063/5.0005376>

[Abstract](#) 𐄂[View article](#)[PDF](#)

Synthesis of 5-benzylidene-hydantoin and 5-benzylidene-creatinine derivatives under mixed catalyst systems of urea-*p*-toluenesulfonic acid (Urea-PTSA) and guanidine hydrochloride-triethylamine (GnHCl-TEA) 𐄂

Kautsar UI Haq; Septi Rosiana Dewi; Sherly Dwi Cicilianingrum; Amalia Muti Anggraini; Zella Dwipuspita Dahana; Indrianti Yunita Sari; Rina Dewi Renjanawati; Januardi Wardana; Fandi Gunawan; Nuzilatul Muschafi; Nisa'ur Rosyidah; Hery Suwito

AIP Conference Proceedings 2237, 020074 (2020) doi: <https://doi.org/10.1063/5.0005378>

[Abstract](#) 𐄂[View article](#)[PDF](#)

The compounds of styrene-butadiene rubber in the incorporation of palmitamide: Abrasion resistance, cure rate index and torque properties 𐄂

Indra Surya; Edwin

AIP Conference Proceedings 2237, 020075 (2020) doi: <https://doi.org/10.1063/5.0005219>

[Abstract](#) 𐄂[View article](#)[PDF](#)

The compounds of montmorillonite-filled natural rubber: Cure rate index, swelling and hardness properties 𐄂

I. Surya; H. Khosman

AIP Conference Proceedings 2237, 020076 (2020) doi: <https://doi.org/10.1063/5.0005218>

[Abstract](#) 𐄂[View article](#)[PDF](#)

Effect of low molecular weight organic acid (LMWOA) on the Zn²⁺ desorption from the soil of illegal land fill in Yogyakarta-Indonesia 𐄂

Suherman; Ayu Maulidya Rachmanda; Roto; Kinichi Morita

AIP Conference Proceedings 2237, 020077 (2020) doi: <https://doi.org/10.1063/5.0005244>

[Abstract ▾](#)[View article](#)[PDF](#)

Microbial life on the surface of the soft coral for solve the self-healing concrete 🛒

[Prima Endang Susilowati](#); [Ahmad Zaeni](#); [Sapril Kartini](#); [I. Nyoman Sudiana](#)

AIP Conference Proceedings 2237, 020078 (2020) doi: <https://doi.org/10.1063/5.0005712>

[Abstract ▾](#)[View article](#)[PDF](#)

Toxicity of benzyl benzoate from *Kaempferia rotunda* L. rhizome 🛒

[Hartiwi Diastuti](#); [Ari Asnani](#); [Undri Rastuti](#); [Mela Anggraeni](#)

AIP Conference Proceedings 2237, 020079 (2020) doi: <https://doi.org/10.1063/5.0005554>

[Abstract ▾](#)[View article](#)[PDF](#)

Physico-chemical characteristics of gelatin as green template for nanomaterial production 🛒

[Maria Ulfa](#); [Windi Apriliani](#)

AIP Conference Proceedings 2237, 020080 (2020) doi: <https://doi.org/10.1063/5.0006142>

[Abstract ▾](#)[View article](#)[PDF](#)

Intermolecular hydrogen bond interactions in *N*-carboxymethyl chitosan and $n\text{H}_2\text{O}$: DFT and NBO studies 🛒

[Beti Safitri](#); [Dwi Hudiayanti](#); [Marlyn Dian Laksitorini](#); [Nurwarrohman Andre Sasongko](#); [Parsaoran Siahaan](#)

AIP Conference Proceedings 2237, 020081 (2020) doi: <https://doi.org/10.1063/5.0005287>

[Abstract](#) [View article](#) [PDF](#)

Synthesis and anticancer study of complex nickel (II) 5,7-dibromoisatin-derived hydrazine carbothiamide

[Fahimah Martak](#); [Nofri Eka Safitri](#); [Endah Mutiara Marhaeni Putri](#); [Agung Bagus Pambudi](#); [Arif Fadlan](#)

AIP Conference Proceedings 2237, 020082 (2020) doi: <https://doi.org/10.1063/5.0005731>

[Abstract](#) [View article](#) [PDF](#)

Committees: The 14th Joint Conference on Chemistry 2019

Cite as: AIP Conference Proceedings **2237**, 010002 (2020); <https://doi.org/10.1063/12.0000669>
Published Online: 02 June 2020



View Online



Export Citation

ARTICLES YOU MAY BE INTERESTED IN

[Preface: The 14th joint conference on chemistry 2019](#)

AIP Conference Proceedings **2237**, 010001 (2020); <https://doi.org/10.1063/12.0000415>

[Photos: The 14th Joint Conference on Chemistry 2019](#)

AIP Conference Proceedings **2237**, 010003 (2020); <https://doi.org/10.1063/12.0000584>

[Kinetic study of methylene blue photocatalytic decolorization using zinc oxide under UV-LED irradiation](#)

AIP Conference Proceedings **2237**, 020001 (2020); <https://doi.org/10.1063/5.0005263>

Lock-in Amplifiers
up to 600 MHz



COMMITTEES

Advisory Board:

Prof. Dr. Jamal Wiwoho, S.H., M.Hum (Rector of Sebelas Maret University, Indonesia)
Prof. Dr. Ir. Ahmad Yunus, M.S (Sebelas Maret University)
Drs. Harjana, M.Si., M.Sc., Ph.D (Dean of Faculty of Mathematics & Natural Sciences, Sebelas Maret University, Indonesia)
Prof. Dr. Evamarie. Hey-Hawkins (Leipzig University, Germany)
Prof. Hirofumi Tanaka (Kyushu Institute of Technology, Japan)
Prof. Santiago Gomez-Ruiz (Rey Juan Carlos University, Spain)
Assoc. Prof. Javier Cepeda Ruiz (University of the Basque Country, Spain)
Prof. Zaher Judeh, Ph.D (Nanyang Technology University, Singapore)
Assoc. Prof. Dr. Younki Lee (Gyeongsang National University, Republic of Korea)
Prof. Dr. How Siew Eng (Universiti Malaysia Sabah)
Assoc. Prof. Dr. Pranoto, M.Sc (Sebelas Maret University)
Dr. Abu Masykur, M.Si (Sebelas Maret University)
Prof. Dra. Neng Sri Suharty, M.S., Ph.D (Sebelas Maret University)
Prof. Drs. Sentot Budi Rahardjo, Ph.D (Sebelas Maret University)
Dr. Triana Kusumaningsih, M.Si (Sebelas Maret University)

Scientific Committee:

Publication and proceeding:

Dr. Fitria Rahmawati, S.Si., M.Si. (Sebelas Maret University)
Dr. Khoirina Dwi Nugrahaningtyas, M.Si (Sebelas Maret University)
Teguh Endah saraswati, M.Eng, PhD (Sebelas Maret University)
Dr. Mohd Sani Sarjadi (Universiti Malaysia Sabah)
Nor Basid Adiwibawa P., S.Si, M.Sc, Ph.D (Diponegoro University)
Dr. Santi Nur Handayani, M.Si (Jenderal Soedirman University)
Dra. Hartati Soetjipto, M.Sc (Kristen Satya Wacana University)
M. Alauhdin, Ph.D (Semarang State University)

Organizing committee:

General Chair

Dr.rer.nat. Atmanto Heru Wibowo, M.Si.
(Sebelas Maret University)

Co-chairman	Dr. Dian Maruto Widjanarko, M.Si. (Sebelas Maret University)
	Dr. Dwi Hudyanti, M.Sc (Diponegoro University)
	Dr. Suwandri, S.Si., M.Si (Jenderal Soedirman University)
	Dr. Nanik Wijayati, M.Si (Semarang State University)
	Dr. Yohanes Martono, S.Si., M.Sc (Kristen Satya Wacana University)
Secretary	Dr.rer.nat. Maulidan Firdaus, M.Sc. (Sebelas Maret University)
	Prof. Venty Suryani, M.Phil., Ph.D (Sebelas Maret University)
	Dr.rer.nat. Witri Wahyu Lestari, M.Sc. (Sebelas Maret University)
Treasury	Dr. Desi Suci Handayani, M.Si. (Sebelas Maret University)
	Dr. Soerya Dewi Marlina, M.Si. (Sebelas Maret University)
Secretariat, registration, equipments	Candra Purnawan, MSc (Sebelas Maret University)
Publication, documentation	Dr. Sri Hastuti, M.Si. (Sebelas Maret University)
	Anang Kuncoro Rachmad Setiawan, S.Si. Apt (Sebelas Maret University)
Technical program	Fachrul Faizalti Ricki Arfian (Sebelas Maret University)
	Dr. Eddy Herald, M.Si (Sebelas Maret University)
	Dr. Sayekti Wahyuningsih, M.Si (Sebelas Maret University)
	Dra. Tri Martini, M.Si (Sebelas Maret University)
	Dr.rer.nat. Fajar Rahman W, M.Si. (Sebelas Maret University)
Web and Information System	Edi Pramono, M.Si (Sebelas Maret University)
Cultural event, Sponsorship, and City Tour	Dr. Yuniawan Hidayat, M.Si. (Sebelas Maret University)
	Dr. I.F. Nurcahyo, M.Si. (Sebelas Maret University)
Logistic	Nanik Subekti, A.Md (Sebelas Maret University)
	Tri Daryanti, S.Sos (Sebelas Maret University)
	Ninik Hartati, A.Md (Sebelas Maret University)

SPEAKERS

- a. Prof. Dr. Harno Dwi Pranowo (Keynote speaker)
- b. Prof. Dr. Eva Marie Hey-Hawkins, Institute of Inorganic Chemistry, Leipzig University, Germany (plenary speaker)
- c. Prof. Dr. Hirofumi Tanaka, Graduate School of Life Science and Systems Engineering, Department of Human Intelligence Systems, Kyushu Institute of Technology, Japan (plenary speaker)
- d. Prof. Dr. Pranoto, Chemistry Department, Universitas Sebelas Maret, Indonesia
- e. Prof. Dr. How Siew- Eng, Combinatorial Chemistry & Natural Products Chemistry, Fakulti Sains dan Sumber Alam, Universiti Malaysia Sabah
- f. Prof. Dr. Santiago Gómez- Ruiz, Department of Biology and Geology, Physics and Inorganic Chemistry, Rey Juan Carlos University, Spain
- g. Prof. Zaher Zudeh, School of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore
- h. Assoc. Prof. Dr. Younki Lee, School of Material Science and Engineering, Gyeongsang National University, Korea
- i. Assoc. Prof. Javier Cepeda-Ruiz, Department of Applied Chemistry, Chemistry

Photos: The 14th Joint Conference on Chemistry 2019

Cite as: AIP Conference Proceedings **2237**, 010003 (2020); <https://doi.org/10.1063/12.0000584>
Published Online: 02 June 2020



View Online



Export Citation

ARTICLES YOU MAY BE INTERESTED IN

[Preface: The 14th joint conference on chemistry 2019](#)

AIP Conference Proceedings **2237**, 010001 (2020); <https://doi.org/10.1063/12.0000415>

[Committees: The 14th Joint Conference on Chemistry 2019](#)

AIP Conference Proceedings **2237**, 010002 (2020); <https://doi.org/10.1063/12.0000669>

[Kinetic study of methylene blue photocatalytic decolorization using zinc oxide under UV-LED irradiation](#)

AIP Conference Proceedings **2237**, 020001 (2020); <https://doi.org/10.1063/5.0005263>

Lock-in Amplifiers
up to 600 MHz





Synthesis and characterization of unsymmetrically branched alkyl chains carbazole-based polymer

Cite as: **AIP Conference Proceedings 2237**, 020005 (2020); <https://doi.org/10.1063/5.0005389>
Published Online: 02 June 2020

Mohd Sani Sarjadi, Shu Er Tan, Xin Lin Wong, Farah Hannan Anuar, Md. Shaheen Sarkar, and Md. Lutfor Rahman



View Online



Export Citation

ARTICLES YOU MAY BE INTERESTED IN

[Metal phase and electron density of transition metal/HZSM-5](#)

AIP Conference Proceedings **2237**, 020003 (2020); <https://doi.org/10.1063/5.0005561>

[Kinetic study of methylene blue photocatalytic decolorization using zinc oxide under UV-LED irradiation](#)

AIP Conference Proceedings **2237**, 020001 (2020); <https://doi.org/10.1063/5.0005263>

[Renewable energy from sediment microbial fuel cell technology from Kendari Bay swamp sediments](#)

AIP Conference Proceedings **2237**, 020004 (2020); <https://doi.org/10.1063/5.0011271>

Lock-in Amplifiers
up to 600 MHz



Synthesis and Characterization of Unsymmetrically Branched Alkyl Chains Carbazole-Based Polymer

Mohd Sani Sarjadi^{1, a)}, Shu Er Tan¹, Xin Lin Wong¹, Farah Hannan Anuar², Md. Shaheen Sarkar³, and Md. Lutfor Rahman¹

¹*Faculty for Science and Natural Resources, Universiti Malaysia Sabah, 88400 Kota Kinabalu, Sabah, Malaysia.*

²*Centre for Advanced Materials and Renewable Resources, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia.*

³*Bernal Institute, University of Limerick, Castletroy, Limerick, Ireland.*

^{a)}Corresponding author: msani@ums.edu.my, sanisarjadi@gmail.com

Abstract. This work introduces a modified poly[*N*-dodecanyl-2,7-carbazole-*alt*-5,5-(4',7'-di -2-thienyl -(*N,N'*-dodecanyl -6, 6'- isoindigo))] (PCDTID) with the unsymmetrically branched *N*-alkyl chain, which is as poly[*N*-(2-hexyldecyl)-2,7-carbazole-*alt* -5, 5-(4',7'-di -2-thienyl-*N,N'* -(2-hexyldecyl) -6,6'- isoindigo)] (**P1**). The synthesis of **P1** involves Suzuki's coupling reactions. Suitable analysis techniques have been used to study the chemical, physical, thermal, optical and electrochemical properties of **P1**. The analysis results show that **P1** possesses higher HOMO and LUMO energy levels than the previously reported PCDTID, which have been narrowing the electrochemical band gap down to 1.37 eV. However, the **P1** experiences 5% thermal degradation at 393 °C, which is relatively less favourable than the PCDTID. Hence, the replacement of the symmetrically branched alkyl chains of PCDTID with unsymmetrically branched alkyl chains results in both improvement and drawback on the characteristics of the polymer.

INTRODUCTION

Nowadays, the research community focus on the research and development of polymeric solar cells. This is because polymeric solar cells possess better features, likes, light weight, flexible, low fabrication cost, and environmental friendly than the inorganic-based solar cell [1-6]. First and foremost, one of the organic photovoltaic cells invented by researchers in the early stage of development, comprises a single-component active layer sandwiched between two electrodes. However, this designed configuration possesses some significant limitations result in low power conversion efficiency [7-11].

Solar cell consists of a p-n junction in a semiconductor between a positive layer and a negative layer. The positive layer is p-type, it will contain movable positive charges or holes. The negative layer is n-type, it will contain movable negative electrons [12-14]. Photon is needed to hit and penetrate semiconductor and an electron from the valance band absorb the energy. Absorption of photons in depletion layer cause spatially separation of electron-hole pair formed by photoexcitation [15]. A p-side become charged positively while n-side is charged negatively. Both, photons absorbed within and outside of the depletion layer contribute to this charging. This process of light-induced charge separation is referred as p-n-photo effect or photovoltaic effect [10]. Photo effect also means by energy transfer photon to electrons contained inside material [16-17]. Since the elementary substitution and the extension of the π -conjugation for the monomers in PCDTID polymeric system had already been widely reported in the several past research [18-21], this work focusses on the study of the polymeric effect when the symmetrically branched alkyl chain of the widely studied PCDTID are replaced with unsymmetrically branched alkyl chain. The synthesis route of **P1** was illustrated out in the **Scheme 1**.

Synthesis and spectra study of Cu (II), Fe (II), Zn (II)-5,15-diphenyl porphyrin

Cite as: **AIP Conference Proceedings 2237**, 020038 (2020); <https://doi.org/10.1063/5.0005553>
Published Online: 02 June 2020

Atmanto Heru Wibowo, Metin Yuliati, Abu Masykur, Suyitno, Desi Suci Handayani, Dian Maruto Widjonarko, Maulidan Firdaus, Ari Yustisia, and Takuji Ogawa



View Online



Export Citation

ARTICLES YOU MAY BE INTERESTED IN

[Freundlich adsorption isotherm in the perspective of chemical kinetics \(II\); rate law approach](#)
AIP Conference Proceedings **2237**, 020037 (2020); <https://doi.org/10.1063/5.0005342>

[Forward osmosis membrane to produce water energy drink from seawater](#)
AIP Conference Proceedings **2237**, 020039 (2020); <https://doi.org/10.1063/5.0005201>

[Initial study on the synthesis of 1-\(4'-isopropilbenzil\)-1,10-phenanthroline bromide from cuminyl alcohol, a potent antimalarial](#)
AIP Conference Proceedings **2237**, 020036 (2020); <https://doi.org/10.1063/5.0005341>

Lock-in Amplifiers
up to 600 MHz



Synthesis and Spectra Study of Cu (II), Fe (II), Zn (II)- 5,15-Diphenyl Porphyrin

Atmanto Heru Wibowo^{1, a)}, Metin Yuliaty¹, Abu Masykur¹, Suyitno², Desi Suci Handayani¹, Dian Maruto Widjonarko¹, Maulidan Firdaus¹, Ari Yustisia³, Takuji Ogawa^{3, b)}

¹*Chemistry Department, Universitas Sebelas Maret, Jl. Ir. Sutami 36A, Surakarta, Indonesia.*

²*Mechanical Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami 36A, Surakarta, Indonesia*

³*Chemistry Department, Graduate School of Science, Osaka University, Machikaneyama-cho 1-1, Toyonaka-city, Osaka, 560-0043, Japan*

a)Corresponding author: aheruwibowo@staff.uns.ac.id

b)Corresponding author: ogawa@chem.sci.osaka-u.ac.jp

Abstract. 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-DPP has Q band at the rightmost shifting than Cu-DPP or Fe-DPP which means it has the least excitation energy among them. Therefore, Zn-DPP has the more potential to be utilized for application such as DSSC.

INTRODUCTION

Metals bonded on the porphyrin cavity may change the properties of porphyrin that is valuable for many kinds of applications. As the effects, single molecule of porphyrin with ion of cobalt, zinc and vanadium could be applied as bacteria detector in the antimicrobial device [1]. Porphyrin dimers with zinc ion on the cavity could be used as dye sensitizer solar cell (DSSC) [2]. Tetraphenyl porphyrin is also in capable to be used for fuel cell [3]. Oligomeric and multi array-porphyrin have been reported to be used as photonic cable and energy photodynamic in the light storage [4].

It has been well known that spectra of electronic absorption of compound such as porphyrin is specific from ground to excited state ($S_0 \rightarrow S_2$) namely Soret and or B band (380-500 nm) depending on the β or meso substitution and ($S_0 \rightarrow S_1$) namely Q band (500-750 nm) [5]. Relative intensity of Q band is due to the kind and position of substituent on the macrocyclic chain. Related to the characteristic of the UV/Vis spectra, porphyrin is able to be classified as etio, rhodo, oxo-rhodo and phyllo [6]. If intensity of Q band $IV > III > II > I$, porphyrin is classified as with etio-type porphyrin spectrum. In this spectrum type, six or more β positions are bounded without π electrons substituents, such as alkyl. Substituent with π electrons substituents such as carbonyl and vinyl causes the change of Q band $III > IV > II > I$, namely rhodo-type porphyrin spectrum. Oxo-rhodo porphyrin is with Q band $III > II > IV > I$, and phyllo type is with $IV > II > III > I$ pattern [7].

In this study, some ion metals of Cu, Fe and Zn were inserted into the DPP. The influence of three kinds of metals in the porphyrin cavity towards the UV/Vis spectra of porphyrin will be investigated. Based on the literature searching,



SJR

Scimago Journal & Country Rank

Enter Journal Title, ISSN or Publisher Name

[Home](#)
[Journal Rankings](#)
[Country Rankings](#)
[Viz Tools](#)
[Help](#)
[About Us](#)

AIP Conference Proceedings

COUNTRY

[United States](#)

Universities
and research
institutions in
United States

Media Ranking
in United
States

SUBJECT AREA AND CATEGORY

Physics and
Astronomy
Physics and
Astronomy
(miscellaneous)

PUBLISHER

American Institute of
Physics

H-INDEX

80

PUBLICATION TYPE

Conferences and
Proceedings

ISSN

0094243X, 15517616

COVERAGE

1973-1978, 1983-
1984, 1993, 2000-
2001, 2003-2022

INFORMATION

[Homepage](#)

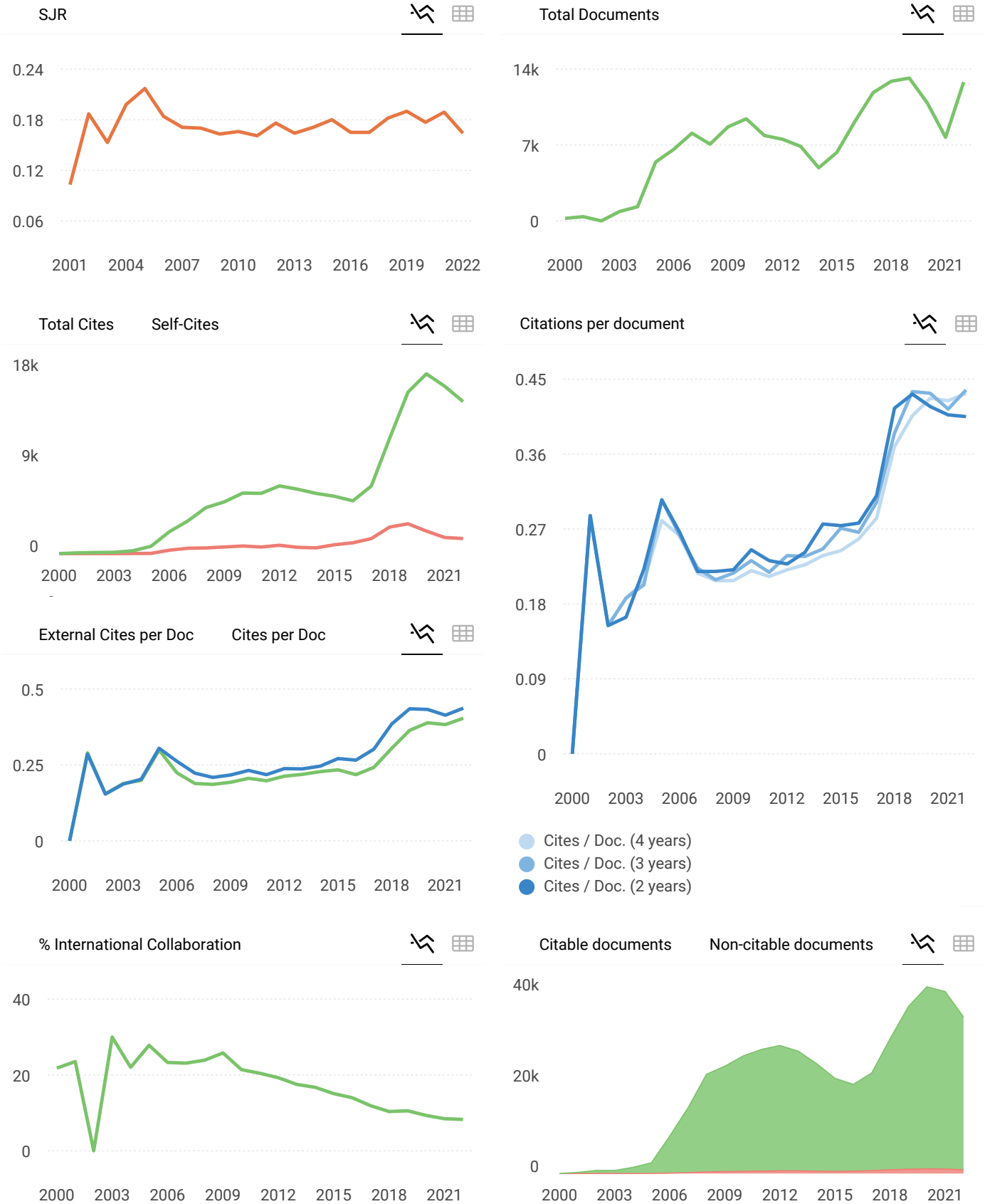
[How to publish in
this journal](#)

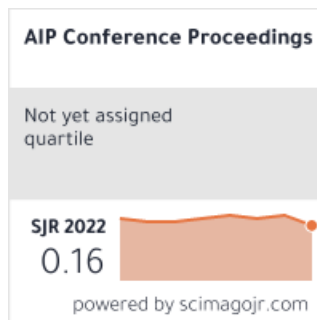
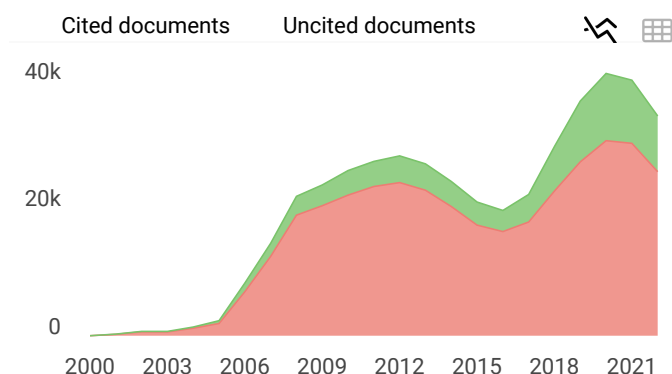
confproc@aip.org

SCOPE

Today, AIP Conference Proceedings contain over 100,000 articles published in 1700+ proceedings and is growing by 100 volumes every year. This substantial body of scientific literature is testament to our 40-year history as a world-class publishing partner, recognized internationally and trusted by conference organizers worldwide. Whether you are planning a small specialist workshop or organizing the largest international conference, contact us, or read these testimonials, to find out why so many organizers publish with AIP Conference Proceedings.

Join the conversation about this journal





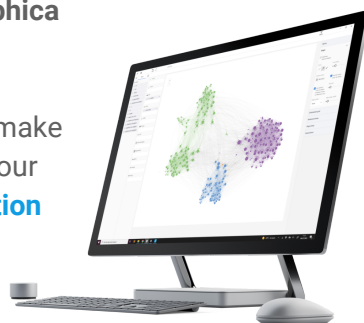
← Show this widget in your own website

Just copy the code below and paste within your html code:

```
<a href="https://www.scimaç
```

SCImago Graphica

Explore, visually communicate and make sense of data with our [new data visualization tool](#).



Metrics based on Scopus® data as of April 2023

A **akhmed** 1 month ago

Dear Admin,

How long does the accepted manuscript takes to be published in this AIP Conference Proceedings? why has my manuscript until now it's not published yet, it's been 255 days since accepted. I have emailed to contact PIC but there is no exact date. Please explain this..thank you

reply



Melanie Ortiz 1 month ago

Dear Akhmed,

Thank you for contacting us.

We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

We suggest you contact the journal's editorial staff , so they could inform you more

SCImago Team