

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: JURNAL ILMIAH
Bukti artikel: C-11

Judul Karya Ilmiah (Artikel) : Synthesis of 4-Hydroxy-2-Methylchalcone from meta-Cresol Formilation Product and Its Activities as an Antibacteria

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : Ismiyanto, Suyanti, Purbowatiningrum Ria Sarjono, Ngadiwiyana, Nor Basid Adiwibawa Prasetya

Identitas Jurnal Ilmiah

a. Nama Jurnal : Jurnal Kimia Sains dan Aplikasi

b. Nomor ISSN : 1410-8917

c. Volume, No, Bulan, Tahun : Vol. 21, issue 4, hal 193-197. Tahun 2018

d. Penerbit : Fakultas Sains dan Matematika Universitas Diponegoro

e. DOI artikel (jika ada) : <https://doi.org/10.14710/jksa.21.4.193-197>

f. URL Jurnal : <https://ejournal.undip.ac.id/index.php/ksa/article/view/19973>

g. Alamat web jurnal : <https://ejournal.undip.ac.id/index.php/ksa>

h. Indexing : Science and Technology Index (SINTA, S2), DOAJ (Directory of Open Access Journal), Google Scholar, Neliti.com, BASE (Bielefeld Academic Search Engine), Indonesian One Search, Crossref, Ifindr, WorldCat, Dimensions, PKPIndex, Garuda - Garba Rujukan Digital, Cassi - A Cas Solution, Microsoft Academic, ROAD: the Directory of Open Access scholarly Resources, Scilit, Harvard Library, Sherpa Romeo, Semantic Scholar

Kategori Publikasi Jurnal Ilmiah : ☐ Jurnal Ilmiah Internasional Bereputasi

(beri Ppada kategori yang tepat) ☐ Jurnal Ilmiah Internasional

☒ v Jurnal Ilmiah Nasional Terakreditasi (Sinta 2) mulai Vol.21 No. 4 (2018) hingga Vol. 26 No. 3 (2023)

☐ Jurnal Ilmiah Nasional Terindeks DOAJ

☐ Jurnal Ilmiah Nasional Tidak terakreditasi

Hasil Penilaian Peer Review :

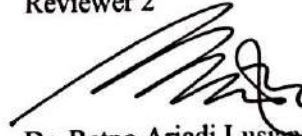
Komponen yang Dinilai	Nilai Maksimal Jurnal Ilmiah	Nilai Akhir Yang Diperoleh
	Jurnal Ilmiah Nasional Terakreditasi (25)	
a. Kelengkapan unsur isi jurnal (10%)	2,5	2,5
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,5	7,3
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,5	7,25
d. Kelengkapan unsur dan kualitas penerbit (30%)	7,5	7,4
Total = (100%)	25	24,45

Reviewer 1


Prof. Drs. Gunawan, M.Si., Ph.D.
 NIP. 196408251991031001
 Unit kerja:
 Departemen Kimia FSM Undip
 Jabatan Fungsional: Guru Besar
 Bidang Ilmu: Kimia

Semarang, 24 Mei 2023

Reviewer 2


Dr. Retno Ariadi Lusiana, S.Si., M.Si.
 NIP. 197012021997022001
 Unit kerja:
 Departemen Kimia FSM Undip
 Jabatan Fungsional: Lektor Kepala
 Bidang Ilmu: Kimia

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: JURNAL ILMIAH
Bukti artikel: C-11

Judul Karya Ilmiah (Artikel) : Synthesis of 4-Hydroxy-2-Methylchalcone from meta-Cresol Formilation Product and Its Activities as an Antibacteria

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : Ismiyarto, Suyanti, Purbowatiningrum Ria Sarjono, Ngadiwiyan, Nor Basid Adiwibawa Prasetya

Identitas Jurnal Ilmiah

a. Nama Jurnal : Jurnal Kimia Sains dan Aplikasi
b. Nomor ISSN : 1410-8917
c. Volume, No, Bulan, Tahun : Vol. 21, issue 4, hal 193-197. Tahun 2018
d. Penerbit : Fakultas Sains dan Matematika Universitas Diponegoro
e. DOI artikel (jika ada) : <https://doi.org/10.14710/jksa.21.4.193-197>
f. URL Jurnal : <https://ejournal.undip.ac.id/index.php/ksa/article/view/19973>
g. Alamat web jurnal : <https://ejournal.undip.ac.id/index.php/ksa>
h. Indexing : Science and Technology Index (SINTA, S2), DOAJ (Directory of Open Access Journal), Google Scholar, Neliti.com, BASE (Bielefeld Academic Search Engine), Indonesian One Search, Crossref, Ifindr, WorldCat, Dimensions, PKPIndex, Garuda - Garba Rujukan Digital, Cassi - A Cas Solution, Microsoft Academic, ROAD: the Directory of Open Access scholarly Resources, Scilit, Harvard Library, Sherpa Romeo, Semantic Scholar

Kategori Publikasi Jurnal Ilmiah : ☐ Jurnal Ilmiah Internasional Bereputasi
(beri Ppada kategori yang tepat) ☐ Jurnal Ilmiah Internasional
☒ Jurnal Ilmiah Nasional Terakreditasi (Sinta 2) mulai Vol.21 No. 4 (2018) hingga Vol. 26 No. 3 (2023)
☐ Jurnal Ilmiah Nasional Terindeks DOAJ
☐ Jurnal Ilmiah Nasional Tidak terakreditasi

Hasil Penilaian Peer Review :

Komponen yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	2,5	2,5	2,5
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,2	7,4	7,3
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,2	7,3	7,25
d. Kelengkapan unsur dan kualitas penerbit (30%)	7,4	7,4	7,4
Total = (100%)	24,3	24,6	24,45

Reviewer 1

Prof. Drs. Gunawan, M.Si., Ph.D.

NIP. 196408251991031001

Unit kerja:

Departemen Kimia FSM Undip

Jabatan Fungsional: Guru Besar

Bidang Ilmu: Kimia

Semarang, 24 Mei 2023

Reviewer 2

Dr. Retno Ariadi Lusiana, S.Si., M.Si.

NIP. 197012021997022001

Unit kerja:

Departemen Kimia FSM Undip

Jabatan Fungsional: Lektor Kepala

Bidang Ilmu: Kimia

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: JURNAL ILMIAH
Bukti artikel: C-11

Judul Karya Ilmiah (Artikel) : Synthesis of 4-Hydroxy-2-Methylchalcone from meta-Cresol Formilation Product and Its Activities as an Antibacteria

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : Ismiyanto, Suyanti, Purbowatiningrum Ria Sarjono, Ngadiwiyan, Nor Basid Adiwibawa Prasetya

Identitas Jurnal Ilmiah

a. Nama Jurnal : Jurnal Kimia Sains dan Aplikasi

b. Nomor ISSN : 1410-8917

c. Volume, No, Bulan, Tahun : Vol. 21, issue 4, hal 193-197. Tahun 2018

d. Penerbit : Fakultas Sains dan Matematika Universitas Diponegoro

e. DOI artikel (jika ada) : <https://doi.org/10.14710/jksa.21.4.193-197>

f. URL Jurnal : <https://ejournal.undip.ac.id/index.php/ksa/article/view/19973>

g. Alamat web jurnal : <https://ejournal.undip.ac.id/index.php/ksa>

h. Indexing : Science and Technology Index (SINTA, S2), DOAJ (Directory of Open Access Journal), Google Scholar, Neliti.com, BASE (Bielefeld Academic Search Engine), Indonesian One Search, Crossref, Ifindr, WorldCat, Dimensions, PKPIndex, Garuda - Garba Rujukan Digital, Cassi - A Cas Solution, Microsoft Academic, ROAD: the Directory of Open Access scholarly Resources, Scilit, Harvard Library, Sherpa Romeo, Semantic Scholar

Kategori Publikasi Jurnal Ilmiah (beri Ppada kategori yang tepat) :

☐ Jurnal Ilmiah Internasional Bereputasi

☐ Jurnal Ilmiah Internasional

☒ Jurnal Ilmiah Nasional Terakreditasi (Sinta 2) mulai Vol.21 No. 4 (2018) hingga Vol. 26 No. 3 (2023)

☐ Jurnal Ilmiah Nasional Terindeks DOAJ

☐ Jurnal Ilmiah Nasional Tidak terakreditasi

Hasil Penilaian Peer Review:

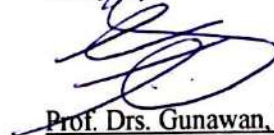
Komponen yang Dinilai	Nilai Maksimal Jurnal Ilmiah					Nilai Akhir Yang Diperoleh
	Internasional Bereputasi (40)	Internasional (30)	Nasional Terakreditasi (25)	Nasional Terindeks DOAJ dll. (20)	Nasional Tidak Terakreditasi (10)	
a. Kelengkapan unsur isi jurnal (10%)			2,5			2,5
b. Ruang lingkup dan kedalaman pembahasan (30%)			7,5			7,2
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)			7,5			7,2
d. Kelengkapan unsur dan kualitas penerbit (30%)			7,5			7,4
Total = (100%)			25			24,3
Kontribusi Pengusul (Penulis anggota)	$40\% \times 24,3 : 4 = 2,43$					

Komentar Peer Review:

- a. **Kelengkapan dan kesesuaian unsur** Kelengkapan dan kesesuaian unsur dari paper ini sudah lengkap dan sesuai dengan kaidah penulisan jurnal yang mencakup Title, Introduction, Experimental, Results and Discussion, Conclusion, References. Penulis telah mengikuti author guidelines dan paper ini ditulis dengan grammar yang baik.
- b. **Ruang lingkup dan kedalaman pembahasan:** paper ini sesuai dengan fokus dan ruang lingkup dari Jurnal Kimia Sains dan Aplikasi yang membahas tentang kimia dan sub-disiplinnya, seperti kimia fisik, kimia organik, kimia anorganik, kimia analitik dan biokimia. Paper ini ditulis cukup mendalam dan membahas sintesis senyawa 4-hidroksi-2-metilkalkon dari 4-hidroksi-2-metilbenzaldehida sebagai produk formilasi meta-kresol dan uji aktivitasnya sebagai material bersifat antibakteri. Novelty pada paper ini yakni senyawa 4-hidroksi-2-metilkalkon menunjukkan aktivitas antibakteri terhadap bakteri *Escherichia coli* daripada pada bakteri *Staphylococcus aureus*
- c. **Kecukupan dan kemutahiran data/informasi dan metodologi:** penelitian ini membahas tentang sintesis senyawa 4-hidroksi-2-metilkalkon dari 4-hidroksi-2-metilbenzaldehida sebagai produk formilasi meta-kresol dan uji aktivitasnya sebagai material bersifat antibakteri. Metodologi dan Data yang disajikan cukup lengkap dengan analisis yang memadai. Sebanyak 8 artikel digunakan sebagai referensi dengan 7 artikel diantaranya merupakan terbitan 10 tahun terakhir. Hal ini menandakan bahwa dilakukan studi literatur yang mendalam dan pembahasan yang diberikan cukup mutakhir.
- d. **Kelengkapan unsur dan kualitas penerbit:** artikel diterbitkan oleh Departemen Kimia Universitas Diponegoro terakreditasi Sinta 2. Similarity index berdasarkan Turnitin adalah 18% sehingga memiliki orisinalitas baik.

Semarang, 16 Mei 2023

Reviewer.1



Prof. Drs. Gunawan, M.Si., Ph.D.

NIP. 196408251991031001

Unit kerja :

Departemen Kimia FSM Undip

Jabatan Fungsional: Guru Besar

Bidang ilmu: Kimia

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH: JURNAL ILMIAH
Bukti artikel: C-11

Judul Karya Ilmiah (Artikel) : Synthesis of 4-Hydroxy-2-Methylchalcone from meta-Cresol Formilation Product and Its Activities as an Antibacteria

Jumlah Penulis : 5 Orang Penulis anggota

Nama Penulis : Ismiyarto, Suyanti, Purbowatiningrum Ria Sarjono, Ngadiwiyana, Nor Basid Adiwibawa Prasetya

Identitas Jurnal Ilmiah

a. Nama Jurnal : Jurnal Kimia Sains dan Aplikasi

b. Nomor ISSN : 1410-8917

c. Volume, No, Bulan, Tahun : Vol. 21, issue 4, hal 193-197. Tahun 2018

d. Penerbit : Fakultas Sains dan Matematika Universitas Diponegoro

e. DOI artikel (jika ada) : <https://doi.org/10.14710/jksa.21.4.193-197>

f. URL Jurnal : <https://ejournal.undip.ac.id/index.php/ksa/article/view/19973>

g. Alamat web jurnal : <https://ejournal.undip.ac.id/index.php/ksa>

h. Indexing : Science and Technology Index (SINTA, S2), DOAJ (Directory of Open Access Journal), Google Scholar, Neliti.com, BASE (Bielefeld Academic Search Engine), Indonesian One Search, Crossref, Ifindr, WorldCat, Dimensions, PKPIndex, Garuda - Garba Rujukan Digital, Cassi - A Cas Solution, Microsoft Academic, ROAD: the Directory of Open Access scholarly Resources, Scilit, Harvard Library, Sherpa Romeo, Semantic Scholar

Kategori Publikasi Jurnal Ilmiah (beri Ppada kategori yang tepat) :

☐ Jurnal Ilmiah Internasional Bereputasi

☐ Jurnal Ilmiah Internasional

☒ Jurnal Ilmiah Nasional Terakreditasi (Sinta 2) mulai Vol.21 No. 4 (2018) hingga Vol. 26 No. 3 (2023)

☐ Jurnal Ilmiah Nasional Terindeks DOAJ

☐ Jurnal Ilmiah Nasional Tidak terakreditasi

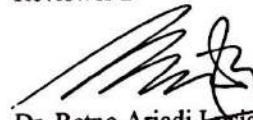
Hasil Penilaian Peer Review:

Komponen yang Dinilai	Nilai Maksimal Jurnal Ilmiah					Nilai Akhir Yang Diperoleh
	Internasional Bereputasi (40)	Internasional (30)	Nasional Terakreditasi (25)	Nasional Terindeks DOAJ dll. (20)	Nasional Tidak Terakreditasi (10)	
a. Kelengkapan unsur isi jurnal (10%)			2,5			2,5
b. Ruang lingkup dan kedalaman pembahasan (30%)			7,5			7,4
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)			7,5			7,3
d. Kelengkapan unsur dan kualitas penerbit (30%)			7,5			7,4
Total = (100%)			25			24,6
Kontribusi Pengusul (Penulis anggota)	$40\% \times 24,6 : 4 = 2,46$					

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, Experimental, Results and Discussion, Conclusion, Acknowledgement dan References. Penulis telah mengikuti author guidelines. Satu bagian dengan bagian lainnya saling berhubungan dan saling melengkapi.
- b. **Ruang lingkup dan kedalaman pembahasan:** Artikel membahas tentang sintesis senyawa kalkon dan pemanfaatannya sebagai material aktif bersifat antibakteri. Proses sintesis senyawa dijelaskan dengan cukup jelas, terlebih lagi dilengkapi dengan gambar mekanisme reaksi pembentukannya sehingga memudahkan pemahaman. Informasi kemurnian senyawa juga digambarkan melalui monitoring TLC. Aplikasinya sebagai material antibakteri disajikan dalam bentuk tabel pengukuran zona hambat dan dilengkapi dengan informasi yang cukup jelas terkait performa antibakteri yang dihasilkan. Secara umum, artikel memberikan kedalaman pembahasan yang baik.
- c. **Kecukupan dan kemutahiran data/informasi dan metodologi:** Metodologi didesain dengan langkah yang baik dan data yang diperoleh disajikan cukup baik. Beberapa instrumen seperti, yaitu UV-Visibel, H-NMR, TLC scanner, maupun LC-MS dimanfaatkan untuk menghasilkan data karakterisasi material yang memadai. Hasil penelitian dipaparkan dalam 9 gambar dan 3 tabel dengan diberikan penjelasan yang baik. Terdapat referensi sebanyak 8 artikel dan mayoritas terkini dengan usia terbit tidak lebih dari 10 tahun.
- d. **Kelengkapan unsur dan kualitas penerbit:** Jurnal diterbitkan oleh Departemen Kimia Undip dan terakreditasi Sinta 2. Similarity index berdasarkan Turnitin adalah 18% sehingga memiliki orisinalitas cukup baik. Kualitas paper ini juga dapat dilihat dari jumlah referensi yang banyak yang digunakan.

Semarang, 16 Mei 2023
Reviewer 2



Dr. Retno Ariadi Lusiana, S.Si., M.Si.
NIP. 197012021997022001

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



[Home \(https://ejournal.undip.ac.id/index.php/ksa/index\)](https://ejournal.undip.ac.id/index.php/ksa/index) > [Archives \(https://ejournal.undip.ac.id/index.php/ksa/issue/archive\)](https://ejournal.undip.ac.id/index.php/ksa/issue/archive) > [Vol 21, No 4 \(2018\) \(https://ejournal.undip.ac.id/index.php/ksa/issue/view/2438\)](https://ejournal.undip.ac.id/index.php/ksa/issue/view/2438) > [Ismiyarto \(https://ejournal.undip.ac.id/index.php/ksa/article/view/19973/0\)](https://ejournal.undip.ac.id/index.php/ksa/article/view/19973/0)

DOI: <https://doi.org/10.14710/jksa.21.4.193-197> (<https://doi.org/10.14710/jksa.21.4.193-197>)

Synthesis of 4-Hydroxy-2-Methylchalcone from meta-Cresol Formulation Product and Its Activities as an Antibacteria

[Ismiyarto Ismiyarto \(https://scholar.google.com/scholar?q=Ismiyarto+Ismiyarto\)](https://scholar.google.com/scholar?q=Ismiyarto+Ismiyarto)
([javascript:openRTWindow\('https://ejournal.undip.ac.id/index.php/ksa/rt/emailAuthor/19973/0'\);](https://ejournal.undip.ac.id/index.php/ksa/rt/emailAuthor/19973/0))
(<https://www.scopus.com/authid/detail.uri?authorId=56955654800>), [Suyanti Suyanti \(https://scholar.google.com/scholar?q=Suyanti+Suyanti\)](https://scholar.google.com/scholar?q=Suyanti+Suyanti),
(<https://www.scopus.com/authid/detail.uri?authorId=56180854900>), [Ngadiwiyan Ngadiwiyan \(https://scholar.google.com/scholar?q=Ngadiwiyan+Ngadiwiyan\)](https://scholar.google.com/scholar?q=Ngadiwiyan+Ngadiwiyan)
(<https://www.scopus.com/authid/detail.uri?authorId=56180854900>), [Purbowatiningrum Ria Sarjono \(https://scholar.google.com/scholar?q=Purbowatiningrum+Ria+Sarjono\)](https://scholar.google.com/scholar?q=Purbowatiningrum+Ria+Sarjono) (<http://orcid.org/0000-0001-9799-4328>)
(<https://www.scopus.com/authid/detail.uri?authorId=57193565576>), [Nor Basid Adiwibawa Prasetya \(https://scholar.google.com/scholar?q=Nor+Basid+Adiwibawa+Prasetya\)](https://scholar.google.com/scholar?q=Nor+Basid+Adiwibawa+Prasetya) (<http://orcid.org/0000-0002-6956-3667>)
(<https://www.scopus.com/authid/detail.uri?authorId=56574376400>)

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

Received: 20 Aug 2018; Revised: 22 Oct 2018; Accepted: 23 Oct 2018; Published: 31 Oct 2018.

(<https://ejournal.undip.ac.id/index.php/ksa/about/editorialPolicies#openAccessPolicy>) Copyright 2018 Jurnal Kimia Sains dan Aplikasi under <http://creativecommons.org/licenses/by-sa/4.0> (<http://creativecommons.org/licenses/by-sa/4.0>).

How to cite (IEEE): I. Ismiyarto, S. Suyanti, N. Ngadiwiyan, P. R. Sarjono, and N. B. A. Prasetya, "Synthesis of 4-Hydroxy-2-Methylchalcone from meta-Cresol Formulation Product and Its Activities as an Antibacteria," *Jurnal Kimia Sains dan Aplikasi*, vol. 21, no. 4, pp. 193-197, Oct. 2018. <https://doi.org/10.14710/jksa.21.4.193-197> (<https://doi.org/10.14710/jksa.21.4.193-197>)

Citation Format: IEEE ([javascript:document.getElementsByTagName\('script'\).setAttribute\('src','https://www.mendeley.com/minified/bookmarklet.js'\);](https://www.mendeley.com/minified/bookmarklet.js)) ([javascript:document.getElementsByTagName\('script'\).setAttribute\('src','https://www.zotero.org/bookmarklet/loader.js'\);](https://www.zotero.org/bookmarklet/loader.js))

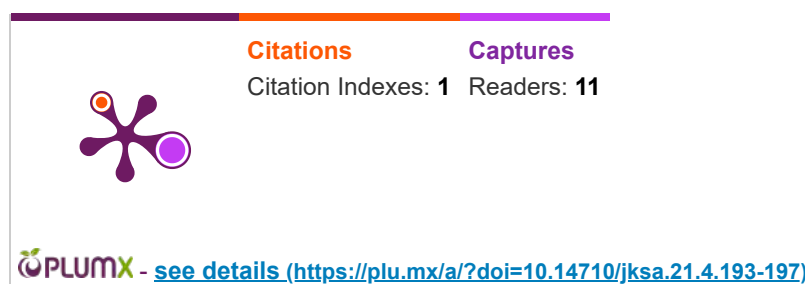
Abstract

Research on the synthesis of 4-hydroxy-2-methylchalcone from 4-hidroksi-2-metilbenzaldehyda as formulated meta-cresol product and its antibacterial activity test has been conducted. As the first step, synthesis of 4-hydroxy-2-methylbenzaldehyde was carried out by treatment meta-cresol with chloroform through the *Reimer-Tiemann* formylation. Product is a brown solid with 23.94% yields. Furthermore, the 4-hydroxy-2-methylchalcone was synthesized using the 4-hydroxy-2-methylbenzaldehyde and acetophenone through the *Claisen-Schmidt* reaction. The product is a brownish yellow solid with 29.74% yields. Antibacterial test against *Escherichia coli* and *Staphylococcus aureus* bacteria was carried out by comparing the activity of 4-hydroxy-2-methylchalcone with 4-hydroxy-3-methoxychalcone, and chalcone compounds. The antibacterial activity test showed that the 4-hydroxy-2-methylchalcone compound, 4-hydroxy-3-methoxychalcone, and chalcone compounds gave a better antibacterial activity against *Escherichia coli* than the *Staphylococcus aureus*.

Fulltext [View \(https://ejournal.undip.ac.id/index.php/ksa/article/view/19973/14128\)](https://ejournal.undip.ac.id/index.php/ksa/article/view/19973/14128) | [Download \(https://ejournal.undip.ac.id/index.php/ksa/article/download/19973/14128\)](https://ejournal.undip.ac.id/index.php/ksa/article/download/19973/14128)

Keywords: Claisen-Schmidt; Chalcone; Reimer-Tiemann; Antibacterial

Article Metrics: 2 (<https://badge.dimensions.ai/details/doi/10.14710/jksa.21.4.193-197?domain=https://ejournal.undip.ac.id>)



[References \(#tab-references\)](#)

[Citing articles \(0\) \(#tab-citations\)](#)

[Citing articles on Scopus \(0\) \(#tab-citationsScopus\)](#)

[Copyright \(#tab-copyright\)](#)

Article Info

Section: Research Articles

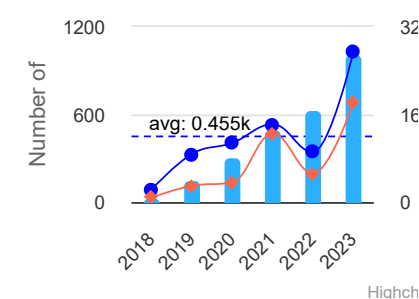
Language : ID (#)

In [Vol 21, No 4 \(2018\): volume 21 Issue 4 Year 2018](#)

(<https://ejournal.undip.ac.id/index.php/ksa/issue>)

Statistics: 2731 (#tab-metrics)

1631 (#tab-metrics)



Recent articles

- > [Utilization and Characterization of Oyster Shell as Chitosan and Nanochitosan \(https://ejournal.undip.ac.id/index.php/ksa/art](#)
- > [Isolation of Phenolic Acid Compounds and Antioxidant Tests from Mindi Leaves \(Melia azedarach L.\) \(https://ejournal.undip.ac.id/index.php/ksa/art](#)
- > [Isolation of Flavonoid Compounds from Eceng Gondok \(Eichhornia crassipes\) and Antioxidant Tests with DPPH \(1,1-Diphenyl-2-Picrylhydrazyl\) Method \(https://ejournal.undip.ac.id/index.php/ksa/art](#)

[More recent articles](#)

(<https://ejournal.undip.ac.id/index.php/ksa/issue>)

Metadata (#tab-metadata)

1. M. Hapsari, Tri Windarti, Purbowatiningrum Ria Sarjono, Ngadiwiyan, Ismiyarto, Synthesis of 4-hydroxy-3-methylchalcone from Reimer-Tiemann reaction product and its antibacterial activity test, IOP Conference Series: Materials Science and Engineering, 349, 1, (2018) 012036
<https://doi.org/10.1088/1757-899X/349/1/012036> (<https://doi.org/10.1088/1757-899X/349/1/012036>)
2. Rajat Ghosh, Abhijit Das, Synthesis and biological activities of chalcones and their heterocyclic derivatives: a review, World Journal of Pharmacy and Pharmaceutical Sciences, 3, 3, (2014) 578-595
3. Kishor V Gaikwad, Sandip V Gaikwad, Satish B Jadhav, Shantilal D Rathod, Synthesis of some novel chalcones of phthalimidoester possessing good anti-inflammatory and antimicrobial activity, Indian Jurnal of Chemistry, 49B, (2010) 131-136
4. B. B. Chavan, A. S. Gadekar, P. P. Mehta, P. K. Vawhal, A. K. Kolsure, A. R. Chabukswar, Synthesis and Medicinal Significance of Chalcones- A Review, Asian Journal of Biomedical and Pharmaceutical Sciences, 6, 56, (2016) 1-7
5. Hery Suwito, Jumina, Mustofa, Alfinda Novi Kristanti, Ni Nyoman Tri Puspaningsih, Chalcones: Synthesis, structure diversity and pharmacological aspects, Journal of Chemical and Pharmaceutical Research, 6, 5, (2014) 1075-1088
6. V. M. Kamble, G. D. Hatnapure, A. P. Keche, S. Birajdar, S. G. Patil, R. H. Tale, A. H. Rodge, S. S. Turkar, K. Gour, Synthesis and biological evaluation of a novel series of methoxylated chalcones as antioxidant and anti-microbial agents, Journal of Chemical and Pharmaceutical Research, 3, 6, (2011) 639-648
7. E. P. Kohler, H. M. Chadwell, Organic Syntheses, in, 1941
8. Madiyono, Sintesis Senyawa 4-hidroksi-3-metoksikalkon dari Vanilin dan Asetofenon, Departemen Kimia, Universitas Diponegoro, Semarang

Visitor: 386157 [View My Stats](#) Jurnal Kimia Sains dan Aplikasi is indexed in:



This work is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).

Copyright ©2023 [Universitas Diponegoro](#). Powered by [Public Knowledge Project OJS](#) and [Mason Publishing OJS theme](#).



Jurnal Kimia

Sains & Aplikasi

Jurnal Kimia

Sains & Aplikasi

Journal of Scientific & Applied Chemistry

OPEN ACCESS

PEER REVIEW

ISSN: 1410-8917

e-ISSN: 2597-9914

Accredited by the Ministries of Research, Technology and Higher Education

No: 3/E/KPT/2019

Home (<https://ejournal.undip.ac.id/index.php/ksa/index/>) / About the Journal (<https://ejournal.undip.ac.id/index.php/ksa/about/>) / Editorial Team (<https://ejournal.undip.ac.id/index.php/ksa/about/editorialTeam>)

Editorial Team

People > Editorial Team (<https://ejournalUndip.ac.id/index.php/ksa/about/editorialTeam>) | Peer Reviewers (<https://ejournal.undip.ac.id/index.php/ksa/about/displayMembership/422/1>)

Editor in Chief



Adi Darmawan (ScopusID: [55953897600](http://www.scopus.com/authid/detail.uri?authorId=55953897600) (<http://www.scopus.com/authid/detail.uri?authorId=55953897600>)) [id](http://orcid.org/0000-0001-5744-5789) (<http://orcid.org/0000-0001-5744-5789>) [P](https://publons.com/researcher/3141033) (<https://publons.com/researcher/3141033>). Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia

Associate editors



Dr. Choiril Azmiyawati (ScopusID: [55543514300](http://www.scopus.com/authid/detail.uri?authorId=55543514300) (<http://www.scopus.com/authid/detail.uri?authorId=55543514300>)) [id](http://orcid.org/0000-0002-4143-9832) (<http://orcid.org/0000-0002-4143-9832>) Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia



Didik Setiyo Widodo (ScopusID: [57195404137](http://www.scopus.com/authid/detail.uri?authorId=57195404137) (<http://www.scopus.com/authid/detail.uri?authorId=57195404137>)) [id](https://orcid.org/0000-0001-8411-9700) (<https://orcid.org/0000-0001-8411-9700>) Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia



Mr Ismiyarto Ismiyarto (ScopusID: [57217110370](http://www.scopus.com/authid/detail.uri?authorId=57217110370) (<http://www.scopus.com/authid/detail.uri?authorId=57217110370>)) [id](http://orcid.org/0000-0002-3939-3433) (<http://orcid.org/0000-0002-3939-3433>) Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia



Dr. Mukhammad Asy'ari (ScopusID: [56117266100](http://www.scopus.com/authid/detail.uri?authorId=56117266100) (<http://www.scopus.com/authid/detail.uri?authorId=56117266100>)) [id](http://orcid.org/0000-0002-3489-1644) (<http://orcid.org/0000-0002-3489-1644>) Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia



Dr. Nor Basid Adiwibawa Prasetya (ScopusID: [56574376400](http://www.scopus.com/authid/detail.uri?authorId=56574376400) (<http://www.scopus.com/authid/detail.uri?authorId=56574376400>)) [id](http://orcid.org/0000-0002-6956-3667) (<http://orcid.org/0000-0002-6956-3667>) Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia



Dr. Yayuk Astuti (ScopusID: [57100033100](http://www.scopus.com/authid/detail.uri?authorId=57100033100) (<http://www.scopus.com/authid/detail.uri?authorId=57100033100>)) [id](http://orcid.org/0000-0002-2107-3829) (<http://orcid.org/0000-0002-2107-3829>) Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia

International Advisory Editorial Boards



Dr. Amin Fatoni (ScopusID: [55488648900](http://www.scopus.com/authid/detail.uri?authorId=55488648900) (<http://www.scopus.com/authid/detail.uri?authorId=55488648900>)) [id](http://orcid.org/0000-0002-6550-2461) (<http://orcid.org/0000-0002-6550-2461>) Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Purwokerto, Indonesia



Prof. Dr Fitria Rahmawati (ScopusID: [36053591500](http://www.scopus.com/authid/detail.uri?authorId=36053591500) (<http://www.scopus.com/authid/detail.uri?authorId=36053591500>)) [id](http://orcid.org/0000-0002-3145-9063) (<http://orcid.org/0000-0002-3145-9063>) Department of Chemistry, Faculty of Mathematics and Natural Sciences, Sebelas Maret University, Indonesia



Dr Gaurav A Bhaduri (ScopusID: [28367493600](http://www.scopus.com/authid/detail.uri?authorId=28367493600) (<http://www.scopus.com/authid/detail.uri?authorId=28367493600>)) [id](http://orcid.org/0000-0002-7714-8877) (<http://orcid.org/0000-0002-7714-8877>) Indian Institute of Technology Jammu (IIT JMU), [India](#)



Dr. Guozhao Ji (ScopusID: [55262553900](http://www.scopus.com/authid/detail.uri?authorId=55262553900) (<http://www.scopus.com/authid/detail.uri?authorId=55262553900>)) [id](https://orcid.org/0000-0003-4556-2675) (<https://orcid.org/0000-0003-4556-2675>) School of Environmental Science and Technology, Dalian University of Technology Dalian, Liaoning, [China](#)



Dr. Ibrahim A. I. Hassan (ScopusID: [55652057500](http://www.scopus.com/authid/detail.uri?authorId=55652057500) (<http://www.scopus.com/authid/detail.uri?authorId=55652057500>)) Department of Chemistry, South Valley University Qena, Egypt, [Egypt](#)



Dr. Mus'ab Abdul Razak (ScopusID: [38961852200](http://www.scopus.com/authid/detail.uri?authorId=38961852200) (<http://www.scopus.com/authid/detail.uri?authorId=38961852200>)) [id](http://orcid.org/0000-0001-5120-1345) (<http://orcid.org/0000-0001-5120-1345>) Department of Chemical and Environmental Engineering, Faculty of Engineering, Universiti Putra Malaysia, [Malaysia](#)

Journal Administrator



Aulia Ekadenti
Chemistry Department, Faculty of Sciences and Mathematics, Diponegoro University JL. Prof. Soedarto, SH., Tembalang, Semarang, Indonesia

Currently, JKSA is accredited with Sinta 2 with a decree [no. 3/E/KP/2019](https://www.dropbox.com/s/dpa9orzqutotdtx/2019-I-Elektronik.pdf?dl=0) (<https://www.dropbox.com/s/dpa9orzqutotdtx/2019-I-Elektronik.pdf?dl=0>) of the Directorate General of Strengthening for Research and Development, Ministry of Research, Technology and Higher Education, Republic of Indonesia



Last update: 23rd March 2023

Number of documents: 612

Cites in Google Scholar: 2069

Google Scholar IF: 2069/612 = 3.381

h-Index: 16, i10-Index: 60

Scopus: 338 citations form 194 articles

Google Scholar citation [here](https://scholar.google.co.id/citations?user=fzjW0kgAAAAJ&hl=en) (<https://scholar.google.co.id/citations?user=fzjW0kgAAAAJ&hl=en>)

Scopus citation [here](https://www.scopus.com/results/results.uri?src=dm&sort=plf-f&sid=80b5bb6cd79162345cd08f711c8181a2&sot=b&sdt=b&sl=74&sf&ws=r-f&ps=r-f&cs=r-f&origin=resultslist&zone=queryBar) (<https://www.scopus.com/results/results.uri?src=dm&sort=plf-f&sid=80b5bb6cd79162345cd08f711c8181a2&sot=b&sdt=b&sl=74&sf&ws=r-f&ps=r-f&cs=r-f&origin=resultslist&zone=queryBar>)

Journal Content

Search

Search Scope

All

▼

Browse

- [By Issue](https://ejournal.undip.ac.id/index.php/ksa/issue/archive) (<https://ejournal.undip.ac.id/index.php/ksa/issue/archive>)
- [By Author](https://ejournalUndip.ac.id/index.php/ksa/search/authors) (<https://ejournalUndip.ac.id/index.php/ksa/search/authors>)
- [By Title](https://ejournalUndip.ac.id/index.php/ksa/search/titles) (<https://ejournalUndip.ac.id/index.php/ksa/search/titles>)
- [Other Journals](https://ejournal.undip.ac.id/index.php/index/search) (<https://ejournal.undip.ac.id/index.php/index/search>)
- [Categories](https://ejournal.undip.ac.id/index.php/index/search/categories) (<https://ejournal.undip.ac.id/index.php/index/search/categories>)

Visitor: 386157 [View My Stats](#)Jurnal Kimia Sains dan Aplikasi is indexed in:



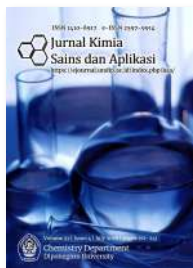
 This work is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/).

Copyright ©2023 [Universitas Diponegoro](#). Powered by [Public Knowledge Project OJS](#) and [Mason Publishing OJS theme](#).



[Home / Archives / Vol 21, No 4 \(2018\)](#)

Vol 21, No 4 (2018): volume 21 Issue 4 Year 2018



Jurnal Kimia Sains dan Aplikasi
ISSN 1410-8917 and e-ISSN 2597-9914
Volume 21 Issue 4 Year 2018
October 2018

Full Issue

View or download the full issue

Untitled 0

Table of Contents

Research Articles

[Validation of UV-VIS Spectrophotometric Methods for Determination of Inulin Levels from Lesser Yam \(*Dioscorea esculenta* L.\)](#)

Sandra Ayu Apriliyani, Yohanes Martono, Cucun Alep Riyanto, Mutmainah Mutmainah, Kusmita Kusmita

Citations 0 | Language: [ID](#) | DOI: [10.14710/jksa.21.4.161-165](#)

Received: 9 Jul 2018; Revised: 6 Aug 2019; Accepted: 9 Aug 2018; Published: 31 Oct 2018.

PDF

161-165

[The Chemical Characteristics of Iron Oxide/Carbon Synthesized by the Arc Discharge Method in Liquid Media with the Addition of Ammonia](#)

Indah Retnosari, Ikrima Nur Hayati, Amalia Amalia, Sri Hastuti, Teguh Endah Saraswati

Citations 1 | Language: [ID](#) | DOI: [10.14710/jksa.21.4.166-170](#)

Received: 13 Jul 2018; Revised: 1 Sep 2018; Accepted: 6 Oct 2018; Published: 31 Oct 2018.

PDF

166-170

[Adsorption of HDTMA-Br surfactant with concentration variation by rice husk-based activated carbon produced by variation of carbonization temperature](#)

Galih N. R. Pargiman, Arnelli Arnelli, Yayuk Astuti

Citations 3 | Language: [ID](#) | DOI: [10.14710/jksa.21.4.171-174](#)

Received: 3 Aug 2018; Revised: 12 Oct 2018; Accepted: 14 Oct 2018; Published: 31 Oct 2018.

PDF

171-174

[Encapsulation of Cinnamaldehyde using Chitosan: Stability, Mucoadhesive and Cinnamaldehyde Release](#)

Purbowatiningrum Ria Sarjono, Ngadiwiyan Ngadiwiyan, Enny Fachriyah, Ismiyarto Ismiyarto, Nor Basid Adiwibawa Prasetya, Khikmah Khikmah

Citations 0 | Language: [EN](#) | DOI: [10.14710/jksa.21.4.175-181](#)

Received: 7 Aug 2018; Revised: 24 Oct 2018; Accepted: 24 Oct 2018; Published: 31 Oct 2018.

PDF

175-181

[Electrosynthesis of \$\alpha\$ -Fe₂O₃ in a Fe\(s\)|KCl\(aq\)||H₂O\(aq\)|C\(s\) System](#)

Nia Siskawati, Didik Setiyo Widodo, Wasino Hadi Rahmanto, Linda Suyati

Citations 2 | Language: [ID](#) | DOI: [10.14710/jksa.21.4.182-186](#)

Received: 2 Aug 2018; Revised: 15 Oct 2018; Accepted: 17 Oct 2018; Published: 31 Oct 2018.

PDF

182-186

[Isolation of Flavonoid Compounds from Eceng Gondok \(*Eichhornia crassipes*\) and Antioxidant Tests with DPPH \(1,1-Diphenyl-2-Picrylhydrazyl\) Method](#)

Kautsar Elvira, Enny Fachriyah, Dewi Kusriani

Citations 3 | Language: [ID](#) | DOI: [10.14710/jksa.21.4.187-192](#)

Received: 20 Aug 2018; Revised: 28 Oct 2018; Accepted: 28 Oct 2018; Published: 31 Oct 2018.

PDF

187-192

[Synthesis of 4-Hydroxy-2-Methylchalcone from meta-Cresol Formulation Product and Its Activities as an Antibacteria](#)

Ismiyarto Ismiyarto, Suyanti Suyanti, Ngadiwiyan Ngadiwiyan, Purbowatiningrum Ria Sarjono, Nor Basid Adiwibawa Prasetya

Citations 2 | Language: [ID](#) | DOI: [10.14710/jksa.21.4.193-197](#)

Received: 20 Aug 2018; Revised: 22 Oct 2018; Accepted: 23 Oct 2018; Published: 31 Oct 2018.

PDF

193-197

[Isolation of Phenolic Acid Compounds and Antioxidant Tests from Mindi Leaves \(*Melia azedarach* L.\)](#)

Andriyani Budi Listyo, Dewi Kusriani, Enny Fachriyah

Citations 0 | Language: [ID](#) | DOI: [10.14710/jksa.21.4.198-204](#)

Received: 6 Aug 2018; Revised: 26 Oct 2018; Accepted: 26 Oct 2018; Published: 31 Oct 2018.

PDF

198-204

[Lowered Sintering Temperature on Synthesis of La_{0.33}Si_{0.26}O_{2.6} \(LSO\) – La_{0.8}Sr_{0.2}Ga_{0.8}Mg_{0.2}O_{2.55} \(LSGM\) Electrolyte Composite and the Electrical Performance on La_{0.7}Ca_{0.3}MnO₃ \(LCM\) Cathode](#)

Yoga Trianzar Malik, Atiek Rostika Noviyanti, Dani Gustaman Syarif

PDF

205-210

General information

Published: 31-10-2018
Total Articles: 14
(including Editorial)
Total Authors: 52

Total authors' affiliations (11)

Issues list

- > Vol 26, No 2 (2023): Volume 26 Issue 2 Year 2023
- > Vol 26, No 1 (2023): Volume 26 Issue 1 Year 2023
- > Vol 25, No 12 (2022): Volume 25 Issue 12 Year 2022
- > Vol 25, No 11 (2022): Volume 25 Issue 11 Year 2022
- > Vol 25, No 10 (2022): Volume 25 Issue 10 Year 2022
- > Vol 25, No 9 (2022): Volume 25 Issue 9 Year 2022
- > Vol 25, No 8 (2022): Volume 25 Issue 8 Year 2022
- > Vol 25, No 7 (2022): Volume 25 Issue 7 Year 2022
- > Vol 25, No 6 (2022): Volume 25 Issue 6 Year 2022
- > Complete issues

Carbonylation Reaction between Glycerol and Urea using CaO Catalyst

PDF

Sukirno Sukirno, Gema Fitriyano

211-217

Citations 1 | Language: ID | DOI: 10.14710/jksa.21.4.211-217

Received: 5 Aug 2018; Revised: 22 Oct 2018; Accepted: 22 Oct 2018; Published: 31 Oct 2018.

Effect of Phosphate Addition and Exposure of Micro Waves on Comparatives Ca/F in Gypsum Waste: Preliminary Study of Hydroxyapatite Synthesis (HAp) from Ceramics Gypsum Industry Waste

PDF

Dewantoro Dewantoro, Margareta Novian Cahyanti, Sri Hartini

218-223

Citations 0 | Language: ID | DOI: 10.14710/jksa.21.4.218-223

Received: 8 Aug 2018; Revised: 25 Oct 2018; Accepted: 26 Oct 2018; Published: 31 Oct 2018.

Utilization and Characterization of Oyster Shell as Chitosan and Nanochitosan

PDF

Lia Handayani, Faisal Syahputra, Yayuk Astuti

224-231

Citations 6 | Language: ID | DOI: 10.14710/jksa.21.4.224-231

Received: 1 Aug 2018; Revised: 25 Oct 2018; Accepted: 27 Oct 2018; Published: 31 Oct 2018.

Cassava Skin Usage (Manihot esculenta L.) as Photocatalyst for Degradation of Methylene Blue in the River of Textile Industrial Zone

PDF

Kharisma Madda Ellyana, Kharisma Luthfiaratri Rahayu, Ratri Febriastuti, Abdul Haris

232-236

Citations 2 | Language: EN | DOI: 10.14710/jksa.21.4.232-236

Received: 18 Aug 2018; Revised: 19 Oct 2018; Accepted: 21 Oct 2018; Published: 31 Oct 2018.

Metabolite Profiling of Java Turmeric (Curcuma xanthoriza) Essential Oil with Different Harvest Times

PDF

Mohamad Rafi, Dewi Anggraini Septaningsih, Rudi Heryanto

237-241

Citations 0 | Language: ID | DOI: 10.14710/jksa.21.4.237-241

Received: 9 Aug 2018; Revised: 2 Nov 2018; Accepted: 5 Nov 2018; Available online: 6 Nov 2018; Published: 31 Oct 2018.

Visitor: 386157 View My StatsJurnal Kimia Sains dan Aplikasi is indexed in:



This work is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/).

Copyright ©2023 [Universitas Diponegoro](https://www.diponegoro.ac.id/). Powered by [Public Knowledge Project OJS](https://www.ojs.org/) and [Mason Publishing OJS](https://www.masonpublishing.com/) theme.