

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

Judul Jurnal Ilmiah (Artikel) : Synthesis of Zeolite from Sugarcane Bagasse Ash Using Cetyltrimethylammonium Bromide as Structure Directing Agent

Jumlah Penulis : 3 orang

Status Pengusul : Penulis Utama

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Indonesian Journal of Chemistry
- b. Nomor ISSN : 1411-9420 (print); 2460-1578 (on-line)
- c. Vol, No., Bln Thn : Vol 18, No 1 (2018), Hal. 159 -165
- d. Penerbit : Gadjah Mada University
- e. DOI artikel (jika ada) : <https://doi.org/10.22146/ijc.22197>
- f. Alamat web jurnal : <https://jurnal.ugm.ac.id/ijc/>
Alamat Artikel : <https://jurnal.ugm.ac.id/ijc/article/view/22197/18879>
url Turnitin: (8%)
http://eprints.undip.ac.id/80669/1/C1_Synthesis_of_Zeolite_from_Sugarcane_Bagasse_Ash_Using_Cetyltrimethylammonium_Bromide_as_Structure_Directing.pdf
- g. Terindex : Jurnal Internasional bereputasi (Q3) terindeks SCOPUS (SJR=0,215)

Kategori Publikasi Jurnal Ilmiah : Jurnal Ilmiah Internasional
 Jurnal Ilmiah Nasional Terakreditasi
 Jurnal Ilmiah Nasional Tidak Terakreditasi

Hasil Penilaian *Peer Review* :

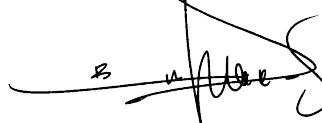
Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional	Nasional Terakreditasi	Nasional Tidak Terakreditasi	
a. Kelengkapan unsur isi jurnal (10%)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
b. Ruang lingkup dan kedalaman pembahasan (30%)	4,00			12
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12,00			12
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00			11,6
Total = (100%)	40,00			39,6

Catatan Penilaian artikel oleh Reviewer :

- 1. Kesesuaian dan kelengkapan unsur isi jurnal:**
Sesuai dan lengkap
- 2. Ruang lingkup dan kedalaman pembahasan:**
Hasil dibahas dengan baik dan detail.
- 3. Kecukupan dan kemutakhiran data/informasi dan metodologi:**
Referensi yang digunakan mutakhir (< 10 th), data baik dan dibahas dengan baik.
- 4. Kelengkapan unsur dan kualitas terbitan:**
Gambar ada yang kurang jelas

Semarang, 30 Maret 2020

Reviewer



Dr. Bambang Cahyono
NIP. 196303161988101001

Unit Kerja : Departemen Kimia FSM UNDIP

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

Judul Jurnal Ilmiah (Artikel) : Synthesis of Zeolite from Sugarcane Bagasse Ash Using Cetyltrimethylammonium Bromide as Structure Directing Agent

Jumlah Penulis : 3 orang

Status Pengusul : Penulis Utama

Identitas Jurnal Ilmiah : a. Nama Jurnal : Indonesian Journal of Chemistry

b. Nomor ISSN : 1411-9420

c. Vol, No., Bln Thn : Vol 18, No 1 (2018), Hal. 159 -165

d. Penerbit : Gadjah Mada University

e. DOI artikel (jika ada) : <https://doi.org/10.22146/ijc.22197>

f. Alamat web jurnal : <https://jurnal.ugm.ac.id/ijc/>

Alamat Artikel : <https://jurnal.ugm.ac.id/ijc/article/view/22197/18879>

url Turnitin: (8%)

http://eprints.undip.ac.id/80669/1/C1_Synthesis_of_Zeolite_from_m_Bromide_as_Structure_Directing.pdf

g. Terindex : Jurnal Internasional bereputasi (Q3) terindeks SCOPUS (SJR=0,215)

Kategori Publikasi Jurnal Ilmiah : Jurnal Ilmiah Internasional
(beri ✓ pada kategori yang tepat) Jurnal Ilmiah Nasional Terakreditasi
 Jurnal Ilmiah Nasional Tidak Terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional	Nasional Terakreditasi	Nasional Tidak Terakreditasi	
e. Kelengkapan unsur isi jurnal (10%)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
f. Ruang lingkup dan kedalaman pembahasan (30%)	4,00			12
g. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12,00			12
h. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00			11
Total = (100%)	40,00			39

Catatan Penilaian artikel oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi jurnal:

Lengkap dan sesuai dengan yang dipersyaratkan jurnal internasional.
Artikel yang dimuat, dibahas dan disusun secara lengkap

2. Ruang lingkup dan kedalaman pembahasan:

Data yang disajikan dibahas dengan detil dan lengkap, disertai referensi pendukung

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Kualitas dan kuantitas pustaka baik, sebagian besar tahun terbit kurang dari 10 th (90%).
Metodologi disajikan detil sehingga bisa diulang peneliti lain.

4. Kelengkapan unsur dan kualitas terbitan:

Kualitas terbitan baik dan masuk dalam Q3, hanya ada beberapa gambar yang kurang jelas.

Semarang, 23 Maret 2020

Reviewer 2



Drs. Gunawan, M.Si, Ph.D

NIP.196408251991031001

Unit Kerja : Departemen Kimia FSM UNDIP

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

Judul Jurnal Ilmiah (Artikel) : Synthesis of Zeolite from Sugarcane Bagasse Ash Using Cetyltrimethylammonium Bromide as Structure Directing Agent

Jumlah Penulis : 3 orang

Status Pengusul : Penulis Utama

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Indonesian Journal of Chemistry
- b. Nomor ISSN : 1411-9420
- c. Vol, No., Bln Thn : Vol 18, No 1 (2018), Hal. 159 -165
- d. Penerbit : Gadjah Mada University
- e. DOI artikel (jika ada) : <https://doi.org/10.22146/ijc.22197>
- f. Alamat web jurnal : <https://jurnal.ugm.ac.id/ijc/>
- Alamat Artikel : <https://jurnal.ugm.ac.id/ijc/article/view/22197/18879>

url Turnitin: (8%)
http://eprints.undip.ac.id/80669/1/C1_Synthesis_of_Zeolite_from_Sugarcane_Bagasse_Ash_Using_Cetyltrimethylammonium_Bromide_as_Structure_Directing.pdf

g. Terindex : Jurnal Internasional bereputasi (Q3) terindeks SCOPUS (SJR=0,215)

Kategori Publikasi Jurnal Ilmiah : Jurnal Ilmiah Internasional
(beri ✓ pada kategori yang tepat) Jurnal Ilmiah Nasional Terakreditasi
 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%)	4	4	4
b. Ruang lingkup dan kedalaman pembahasan (30%)	12	12	12
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12	12	12
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	11,6	11	11,3
Total = (100%)	39,6	39	39,3

Semarang, 30 Maret 2020

Reviewer 2



Drs. Gunawan, M.Si, Ph.D
NIP.196408251991031001
Unit Kerja : Departemen Kimia FSM UNDIP

Reviewer 1



Dr. Bambang Cahyono
NIP. 196303161988101000
Unit Kerja : Departemen Kimia FSM UNDIP



Menu

[Home](#) [About](#) [User Home](#) [Search](#) [Current](#) [Archives](#) [Announcements](#) [Statistics](#) [Indexing & Abstracting](#) [Journal History](#) [Contact](#)[Home > Vol 20, No 2 \(2020\)](#)

Indonesian Journal of Chemistry

Indonesian Journal of Chemistry is an International, peer-reviewed, open access journal that publishes original research articles, review articles, as well as short communication in all areas of chemistry including applied chemistry. The journal is accredited by The Ministry of Research, Technology and Higher Education (RISTEKDIKTI) **No : 21/E/KPT/2018** (in First Rank) and indexed in Scopus since 2012. In 2018 and 2019 (Volume 18 and 19, respectively) Indonesian Journal of Chemistry publish four issues (numbers) annually (February, May, August and November). Due to the large number of qualified papers accepted, to speed up the publication of the scientific and valuable research results, since 2020 (Volume 20) Indonesian Journal of Chemistry increase the frequency of issues to be six numbers annually (February, April, June, August, October, and December).



Announcements

Publication Frequency and call for paper

After publishing four issues since volume 18 (2018), the number of submitted papers increases significantly. Therefore, to speed up qualified articles to be published internationally, Indonesian Journal of Chemistry publishes six issues (numbers) annually (February, April, June, August, October, and December) since 2020 (Volume 20). Therefore, we invite all authors to submit your qualified manuscripts of original research articles, reviews, short communication in our Journal. Within two months (longest) from submission, the decision of acceptance or rejection has been made. Submission is only via online.

Posted: 2019-12-17

Most Cited Articles

1. A Rahman, A Ismail, D Jumbianti, S Magdalena, H Sudrajat, 2009, Synthesis of copper oxide nano particles by using Phormidium cyanobacterium, *Indones. J. Chem.*, 9 (3), 355-360
2. H Winarno, 2009, Benzophenone glucoside isolated from the ethyl acetate extract of the bark of mahkota dewa [Phaleria macrocarpa (Scheff.) Boerl.] and its inhibitory activity on leukemia L121, *Indones. J. Chem.*, 9 (1), 142-145
3. MT Ekaprasada, H Nurdin, S Ibrahim, D Dachriyanus, 2009, Antioxidant activity of methyl gallate isolated from the leaves of Toona sureni, *Indones. J. Chem.*, 9 (3), 457-460
4. WD Fitriana, T Ersam, K Shimizu, S Fatmawati, 2016, Antioxidant activity of Moringa oleifera extracts, *Indones. J. Chem.*, 16 (3), 297-301
5. H Natsir, AR Patong, MT Suhartono, A Ahmad, 2010, Production and characterization of chitinase enzymes from Sulili hot spring in South Sulawesi, Bacillus sp. HSA, 3-1a, *Indones. J. Chem.*, 10 (2), 256-260
6. N Syafni, DP Putra, D Arbain, 2012, 3, 4-dihydroxybenzoic acid and 3, 4-dihydroxybenzaldehyde from the fern Trichomanes chinense L.; isolation, antimicrobial and antioxidant properties, *Indones. J. Chem.*, 12 (3), 273-278
7. I Fatimah, E Sugiharto, K Wijaya, I Tahir, K Kamalia, 2006, Titanium Oxide Dispersed On Natural Zeolite (Tio 2/Zeolite) And Its Application For Congo Red Photodegradation, *Indones. J. Chem.*, 6 (1), 38-42
8. E Heraldy, SW Hisyam, S Sulistyono, 2003, Characterization and Activation of Natural Zeolite from Ponorogo. *Indones. J. Chem.*, 3 (2), 91-97
9. E Hermiati, J Azuma, D Mangunwidiaia, TC Sunarti, O Suparno. 2011. Hvdrolvsis of carbohvdrates in cassava pulb and tapioca

ARTICLE IN PRESS

List of the accepted articles for future issues.

[Focus & Scope](#)[Author Guidelines](#)[Author Fees](#)[Online Submission](#)[Publication Ethics](#)[Plagiarism Policy](#)[Editorial Board](#)[Peer Reviewers](#)[Order Journal](#)[Visitor Statistics](#)

USER

You are logged in as...
sriatun

- [My Journals](#)
- [My Profile](#)
- [Log Out](#)

JOURNAL CONTENT

Search

Search Scope

All

Browse

- [By Issue](#)
- [By Author](#)
- [By Title](#)
- [Other Journals](#)

INFORMATION

- [For Readers](#)
- [For Authors](#)



Menu

[Home](#)
[About](#)
[User Home](#)
[Search](#)
[Current](#)
[Archives](#)
[Announcements](#)
[Statistics](#)
[Indexing & Abstracting](#)
[Journal History](#)
[Contact](#)

Home > About the Journal > **Journal Contact**

Journal Contact

Mailing Address

Indonesian Journal of Chemistry

Department of Chemistry, Universitas Gadjah Mada, Sekip Utara Yogyakarta, Indonesia 55281

Phone: +62-274-545188

Fax: +62-274-545188

E-mail: ijc@ugm.ac.id

URL: <https://jurnal.ugm.ac.id/ijc>

Principal Contact

Prof. Dr.rer.nat. Nuryono, MS

Editor-in-Chief

Department of Chemistry, Universitas Gadjah Mada, Indonesia

Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Sekip Utara Yogyakarta, Indonesia 55281

Phone: +62-274-545188

Fax: +62-274-545188

Email: nuryono_mipa@ugm.ac.id

Support Contact

Iqmal Tahir

Phone: +62-274-545188

Email: iqmal@ugm.ac.id

Indonesian Journal of Chemistry (ISSN 1411-9420 / 2460-1578) - Chemistry Department, Universitas Gadjah Mada, Indonesia.

01320171 [View The Statistics of Indones. J. Chem.](#)

ARTICLE IN PRESS

List of the accepted articles for future issues.

[Focus & Scope](#)

[Author Guidelines](#)

[Author Fees](#)

[Online Submission](#)

[Publication Ethics](#)

[Plagiarism Policy](#)

[Editorial Board](#)

[Peer Reviewers](#)

[Order Journal](#)

[Visitor Statistics](#)

USER

You are logged in as...
sriatun

- [▶ My Journals](#)
- [▶ My Profile](#)
- [▶ Log Out](#)

JOURNAL CONTENT

Search

Search Scope

All ▾

Browse

- [▶ By Issue](#)
- [▶ By Author](#)
- [▶ By Title](#)
- [▶ Other Journals](#)

INFORMATION

- [▶ For Readers](#)
- [▶ For Authors](#)

► For Librarians

KEYWORDS

HPLC QSAR TiO₂

adsorption

antioxidant catalyst

characterization **chitosan**

eugenol extraction fly ash heavy

metals immobilization kinetics

molecular docking photocatalyst

selectivity silica synthesis

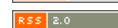
transesterification zeolite

Indones. J. Chem.

indexed by:



CURRENT ISSUE





Menu

[Home](#)
[About](#)
[User Home](#)
[Search](#)
[Current](#)
[Archives](#)
[Announcements](#)
[Statistics](#)
[Indexing & Abstracting](#)
[Journal History](#)
[Contact](#)

Home > About the Journal > **Editorial Team**

Editorial Team

Editor-in-Chief

Nuryono Nuryono, Laboratory of Inorganic Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Vice Editor in Chief

Dwi Siswanta, Laboratory of Analytical Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Editorial Board

Akhmad Syoufian, Laboratory of Physical Chemistry, Department of Chemistry, Universitas Gadjah Mada

Hideaki Hisamoto, Department of Applied Chemistry, Osaka Prefecture University, Japan

Hendrik Oktendy Lintang, Indonesia

Iqmal Tahir, Laboratory of Physical Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Indriana Kartini, Laboratory of Inorganic Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Joe da Costa, Department of Chemical Engineering, University of Queensland, Australia

Dr. Maurizio Barbieri, Department of Earth Science, Sapienza University, Italy

Ming Cai, Tongji University, China

Muhammad Idham Darussalam Mardjan, Laboratory of Organic Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Pornthep Sompornpisut, Department of Chemistry, Chulalongkorn University, Thailand

Praveen Kumar Sharma, Department of Chemistry, Lovely Professional University, Punjab, India

Assoc. Prof. Dr. Roswanira Abdul Wahab, Department of Chemistry, Universiti Teknologi Malaysia, Malaysia

Saprizal Hadisaputra, Chemistry Education Division, Faculty of Science and Education, University of Mataram, Indonesia

Prof. Dr. Taghreed Hashim Al-Noor, Ibn-Al-Haitham Education College /University of Baghdad, Iraq

Tutik Dwi Wahyuningsih, Laboratory of Organic Chemistry, Department of Chemistry, Universitas Gadjah Mada

Satya Candra Wibawa Sakti, Laboratory of Inorganic Chemistry, Department of Chemistry, Universitas Airlangga, Indonesia

Tri Joko Raharjo, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Winifred Uduak Anake, Department of Chemistry, College of Science and Technology, Covenant University, Nigeria

Administration Support

Djoko Prihandono, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Aulia Sukma Hutama, Laboratory of Physical Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Aulia Ratri Hapsari, Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia

Indonesian Journal of Chemistry (ISSN 1411-9420 / 2460-1578) - Chemistry Department, Universitas Gadjah Mada, Indonesia.

01320168 View The Statistics of Indones. J. Chem.

ARTICLE IN PRESS

List of the accepted articles for future issues.

[Focus & Scope](#)

[Author Guidelines](#)

[Author Fees](#)

[Online Submission](#)

[Publication Ethics](#)

[Plagiarism Policy](#)

[Editorial Board](#)

[Peer Reviewers](#)

[Order Journal](#)

[Visitor Statistics](#)

USER

You are logged in as...

sriatun

[My Journals](#)

[My Profile](#)

[Log Out](#)

JOURNAL CONTENT

Search

Search Scope

Browse

[By Issue](#)

[By Author](#)

[By Title](#)

[Other Journals](#)

INFORMATION

[For Readers](#)

[For Authors](#)



Menu

[Home](#)
[About](#)
[User Home](#)
[Search](#)
[Current](#)
[Archives](#)
[Announcements](#)
[Statistics](#)
[Indexing & Abstracting](#)
[Journal History](#)
[Contact](#)

Home > About the Journal > People

People

Peer Reviewers

Unang Supratman, Universitas Padjadjaran Bandung, Indonesia

Prof Won Koo Lee, Sogang University, Korea, Republic of

Dr. Hamidah Abdullah, Faculty of Chemical and Natural Resources Engineering, Universiti Malaysia Pahang, Malaysia

Assist. Prof. Luma Majeed Ahmed, Department of Chemistry, College of Science, University of Kerbala, Iraq

Dr Azzmer Azzar Abdul Hamid, Kuliyyah of Science, International Islamic University Malaysia, Kuantan, Pahang, Malaysia, Malaysia

Prof. Dr. Taghreed Hashim Al-Noor, Ibn-Al-Haitham Education College /University of Baghdad, Iraq

Didik Prasetyoko, Department of Chemistry, Faculty of Mathematics and Science, Institut Teknologi Sepuluh Nopember, Indonesia

Dr. Shevin Rizal Feroz, Centre for Biotechnology and Functional Foods, Faculty of Science and Technology, University Kebangsaan Malaysia, Malaysia

Dr. Bahman Ramavandi, Bushehr University of Medical Sciences, Environmental Science, Iran, Islamic Republic of

Dr. A. M.A. Alaghaz, Chemistry Department, Faculty of Science, Al-Azhar University, Syrian Arab Republic

Dr. Alaa Al-Khalaf, Al-Qasim Green University, Iraq

Dr. Saad Madlool Mahdi, University of Babylon, Iraq

Prof. Zuriati Zakaria, Universiti Kebangsaan Malaysia (UKM), Malaysia

Ming Cai, Tongji University, China

Dr. Mustafa Sözbilir, Ataturk University, Turkey

Prof. Keisuke Ohto, Department of Chemistry and Applied Chemistry, Saga University, Japan

Dr. Maurizio Barbieri, Department of Earth Science, Sapienza University, Italy

Dr. Mustapha Saheed, Department of Chemistry, Federal University of Technology, Minna, Nigeria

Enade Perdana Istyastono, Faculty of Pharmacy, Sanata Dharma University, Indonesia

Dr. Taku Onishi, Graduate School of Engineering, Mie University, Japan

Dr. Rabeta Mohd Salleh, School of Industrial Technology, Universiti Sains Malaysia, Malaysia

Dr. Adi Darmawan, Chemistry Department, Diponegoro University, Indonesia

Hendrik Oktendy Lintang, Indonesia

Saprizal Hadisaputra, Chemistry Education Division, Faculty of Science and Education, University of Mataram, Indonesia

ARTICLE IN PRESS

List of the accepted articles for future issues.

[Focus & Scope](#)

[Author Guidelines](#)

[Author Fees](#)

[Online Submission](#)

[Publication Ethics](#)

[Plagiarism Policy](#)

[Editorial Board](#)

[Peer Reviewers](#)

[Order Journal](#)

[Visitor Statistics](#)

USER

You are logged in as...
sriatun

- [▶ My Journals](#)
- [▶ My Profile](#)
- [▶ Log Out](#)

JOURNAL CONTENT

Search

Search Scope

All ▼

Browse

- [▶ By Issue](#)
- [▶ By Author](#)
- [▶ By Title](#)
- [▶ Other Journals](#)

INFORMATION

- [▶ For Readers](#)
- [▶ For Authors](#)

Satya Candra Wibawa Sakti, Laboratory of Inorganic Chemistry, Department of Chemistry, Universitas Airlangga, Indonesia

Tri Rini Nuringtyas, Faculty of Biology, Universitas Gadjah Mada, Indonesia

Venty Suryanti, Department of Chemistry, Faculty of Mathematic and Natural Sciences, Sebelas Maret University, Indonesia

Is Fatimah, UII Yogyakarta, Indonesia

Guidong Yang, Xian Jiaotong University, China, China

Yuichi Kamiya, Hokkaido University, Japan

Hisao Kokusen, Department of Chemistry, Tokyo Gakugei University, Japan

Leny Yulianti, Ma Chung Research Center for Photosynthetic Pigments, Universitas Ma Chung, Malang 65151, East Java, Indonesia

Buhani Buhani, Department of Chemistry, Universitas Lampung, Indonesia

Sri Juari Santosa, Department of Chemistry Universitas Gadjah Mada

Sridhar Govindarajan, Diagnostic and Therapeutic Technologies, Newcastle University, Newcastle upon Tyne, UK, United Kingdom

Wega Trisunaryanti, Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia

Fajar Rakhman Wibowo, Department of Chemistry, Sebelas Maret University, Indonesia

Harno Dwi Pranowo, Laboratory of Organic Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Maulidan Firdaus, Department of Chemistry, Universitas Sebelas Maret, Indonesia

Mudasir Mudasir, Laboratory of Analytical Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Karna Wijaya, Laboratory of Physical Chemistry, Department of Chemistry, Universitas Gadjah Mada, Indonesia

Nurul Hidayat Aprilita, Fakultas Matematika dan Ilmu Pengetahuan dan Alam, Universitas Gadjah Mada, Yogyakarta, Indonesia

David St. Clair Black, University of New South Wales, Australia

Indonesian Journal of Chemistry (ISSN 1411-9420 / 2460-1578) - Chemistry Department, Universitas Gadjah Mada, Indonesia.

01320164 [View The Statistics of Indones. J. Chem.](#)

► For Librarians

KEYWORDS

HPLC QSAR TiO₂

adsorption

antioxidant catalyst

characterization chitosan

eugenol extraction fly ash heavy

metals immobilization kinetics

molecular docking photocatalyst

selectivity silica synthesis

transesterification zeolite

Indones. J. Chem.
indexed by:

Scopus[®]



CURRENT ISSUE

ATOM 1.0

RSS 2.0

RSS 1.0



Menu

Home About User Home Search Current Archives Announcements Statistics Indexing & Abstracting Journal History Contact

Home > Archives > Vol 18, No 1 (2018)

Vol 18, No 1 (2018)

Accredited by DIKTI No : 58/DIKTI/Kep/2013

Date : 22 August 2013



Table of Contents

Articles

- | | |
|---|-------|
| <p>The Modification of PVDF Membrane via Crosslinking with Chitosan and Glutaraldehyde as the Crosslinking Agent</p> <p><i>Romaya Sitha Silitonga, Nurul Widiastuti, Juhana Jaafar, Ahmad Fauzi Ismail, Muhammad Nidzhom Zainol Abidin, Ihsan Wan Azelee, Mahesan Naidu</i></p> <p> 10.22146/ijc.25127 Abstract views : 2013 views : 2772</p> | 1-6 |
| <p>Physical Mixture Interaction of Acetaminophenol with Naringenin</p> <p><i>Normyzatul Akmal Abd Malek, Hamizah Mohd Zaki, Mohammad Noor Jalil</i></p> <p> 10.22146/ijc.26732 Abstract views : 918 views : 1081</p> | 18-25 |
| <p>An Ellagic Acid Derivative and Its Antioxidant Activity of Stem Bark Extracts of <i>Syzygium polycephalum</i> Miq. (Myrtaceae)</p> <p><i>Tukiran Tukiran, Andika Pramudya Wardana, Nurul Hidayati, Kuniyoshi Shimizu</i></p> <p> 10.22146/ijc.25467 Abstract views : 1889 views : 2300</p> | 26-34 |
| <p>One-Pot Eco-Safe Saccharin-Catalyzed Procedure for Expedient and Convenient Synthesis of Dihydropyran[2,3-<i>c</i>]pyrazole, Tetrahydrobenzo[<i>b</i>]pyran and Pyrano[2,3-<i>d</i>]pyrimidinone Scaffolds as a Green and Versatile Catalyst</p> <p><i>Farzaneh Mohamadpour, Mojtaba Lashkari, Nourallah Hazeri</i></p> <p> 10.22146/ijc.28450 Abstract views : 1464 views : 1520</p> | 7-17 |
| <p>Liquid Chromatography Mass Spectrometry (LC-MS) Fingerprint Combined with Chemometrics for</p> | 43-52 |

ARTICLE IN PRESS

List of the accepted articles for future issues.

Focus & Scope

Author Guidelines

Author Fees

Online Submission

Publication Ethics

Plagiarism Policy

Editorial Board

Peer Reviewers

Order Journal

Visitor Statistics

USER

You are logged in as...
sriatun

- ▶ My Journals
- ▶ My Profile
- ▶ Log Out

JOURNAL CONTENT

Search

Search Scope































Search

Browse

- ▶ By Issue
- ▶ By Author
- ▶ By Title
- ▶ Other Journals

INFORMATION

- ▶ For Readers
- ▶ For Authors

Identification of Metabolites Content and Biological Activities of <i>Curcuma aeruginosa</i> <i>Dewi Anggraini Septaningsih, Latifah Kosim Darusman, Farit Mochamad Afendi, Rudi Heryanto</i>	
 10.22146/ijc.25456  Abstract views : 2416  views : 3783	
Cytotoxic Triterpenoids from the Stembark of <i>Aglaiia argentea</i> (Meliaceae) <i>Ace Tatang Hidayat, Kindi Farabi, Desi Harneti, Nurlelasari Nurlelasari, Rani Maharani, Ida Nurfarida, Unang Supratman, Yoshihito Shiono</i>	35-42
 10.22146/ijc.25052  Abstract views : 1293  views : 1427	
A Green Synthesis of a Novel Calix[4]Resorcinarene from 7-Hydroxycitronellal Using Microwave Irradiation <i>Ratnaningsih Eko Sardjono, Iqbal Musthapa, Iis Rosliana, Fitri Khoerunnisa, Galuh Yuliani</i>	53-59
 10.22146/ijc.25466  Abstract views : 1342  views : 1519	
Structure-Activity Relationship Study on the Ethyl <i>p</i>-Methoxycinnamate as an Anti-Inflammatory Agent <i>Ismiarni Komala, Supandi Supandi, Nurhasni Nurhasni, Ofa Suzanti Betha, Eka Putri, Syarifatul Mufidah, Muhammad Fikry Awaludin, Mida Fahmi, Muhammad Reza, Nurkhayati Putri Indriyani</i>	60-65
 10.22146/ijc.26162  Abstract views : 1481  views : 1779	
Antidiabetic Activities and Identification of Chemical Compound from Samama (<i>Anthocephalus macrophyllus</i> (Roxb) Havil) <i>Laela Nur Anisah, Wasrin Syaifi, Gustan Pari, Rita Kartika Sari</i>	66-74
 10.22146/ijc.25492  Abstract views : 1436  views : 1925	
The Effect of <i>Pseudomonas aeruginosa</i> Addition on 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane (DDT) Biodegradation by Brown-rot Fungus <i>Fomitopsis pinicola</i> <i>Atmira Sariwati, Adi Setyo Purnomo</i>	75-81
 10.22146/ijc.25158  Abstract views : 1127  views : 1300	
The Physico-Mechanical Properties and Release Kinetics of Eugenol in Chitosan-Alginate Polyelectrolyte Complex Films as Active Food Packaging <i>Baiq Amelia Riyandari, Suherman Suherman, Dwi Siswanta</i>	82-91
 10.22146/ijc.26525  Abstract views : 1344  views : 1504	
Synthesis and Characterization of Chitosan Linked by Methylene Bridge and Schiff Base of 4,4-Diaminodiphenyl Ether-Vanillin <i>Ahmad Fatoni, Poedji Loekitowati Hariani, Hermansyah Hermansyah, Aldes Lesbani</i>	92-101
 10.22146/ijc.25866  Abstract views : 2130  views : 2701	
Synthesis of Chalcone Derivatives and Their <i>in vitro</i> Anticancer Test Against Breast (T47D) and Colon (WiDr) Cancer Cell Line <i>Chairil Anwar, Yogo Dwi Prasetyo, Sabirin Matsjeh, Winarto Haryadi, Eti Nurwening Sholikhah, Nendrowati Nendrowati</i>	102-107
 10.22146/ijc.26864  Abstract views : 1491  views : 2182	
Synthesis and Kinetic Study of the Urea Controlled Release Composite Material: Sodium Lignosulfonate from Isolation of Wood Sawdust-Sodium Alginate-Tapioca <i>Arif Cahyo Imawan, Yehezkiel Steven Kurniawan, Muhammad Fernadi Lukman, Jumina Jumina, Triyono Triyono, Dwi Siswanta</i>	108-115
 10.22146/ijc.26597  Abstract views : 1652  views : 1095  views : 1095	
A New Thiourea Compound as Potential Ionophore for Metal Ion Sensor <i>Fatimatul Akma Awang Ngah, Emma Izzati Zakariah, Imran Fakhar, Nurul Izzaty Hassan, Lee Yook Heng, Bohari Yamin, Siti Aishah Hasbullah</i>	116-120
 10.22146/ijc.27078  Abstract views : 1225  views : 1417	
Synthesis of A Novel Carrier Compound Thiazioethyl Methyl Eugenoxyacetate from Eugenol and Its Use in the Bulk Liquid Membrane Technique <i>Muhammad Cholid Djunaidi, Pratama Jujur Wibawa, Ratna Hari Murti</i>	121-126
 10.22146/ijc.25075  Abstract views : 1300  views : 1409	
Improvement of Cycling Performance of Na_{2/3}Co_{2/3}Mn_{1/3}O₂ Cathode by PEDOT/PSS Surface Coating for Na-Ion Batteries	127-136

► For Librarians

KEYWORDS

HPLC QSAR TiO₂

adsorption

antioxidant catalyst

characterization chitosan

eugenol extraction fly ash heavy

metals immobilization kinetics

molecular docking photocatalyst

selectivity silica synthesis

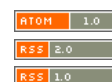
transesterification zeolite

Indones. J. Chem.
indexed by:

Scopus®



CURRENT ISSUE



NANOION BATTERIES

Yatim Lailun Ni'mah, Ju Hsiang Cheng, Ming Yao Cheng, Wei Nien Su, Bing Joe Hwang

10.22146/ijc.24893  Abstract views : 1428 |  views : 1523

Spatial Distribution of Heavy Metals in the Surface Sediments of the Southern Coast of Pacitan, Indonesia 137-144

Defri Yona, Mochamad Arif Zainul Fuad, Nurin Hidayati

10.22146/ijc.22400  Abstract views : 945 |  views : 1410

Activated Carbon from Spent Brewery Barley Husks for Cadmium Ion Adsorption from Aqueous Solution 145-152

Illesnmi Osasona, Kayode Aiyedatiwa, Jonathan Johnson, Oluwabamise Lekan Faboya

10.22146/ijc.22422  Abstract views : 1160 |  views : 1592Synthesis, Radiochemical Purity Control and Stability of Scandium-46-1,4,7-triazacyclononane-1,4,7-triacetic acid (⁴⁶Sc-NOTA) 153-158

Duyeh Setiawan, Iwan Hastiawan, Asri Nurul Bashiroh


10.22146/ijc.24467  Abstract views : 1205 |  views : 1399

Synthesis of Zeolite from Sugarcane Bagasse Ash Using Cetyltrimethylammonium Bromide as Structure Directing Agent 159-165

Sriatun Sriatun, Taslimah Taslimah, Linda Suyati

10.22146/ijc.22197  Abstract views : 1156 |  views : 1915Hydrocracking of α -Cellulose Using Co, Ni, and Pd Supported on Mordenite Catalysts 166-172

Wega Trisunaryanti, Triyono Triyono, Ria Armunanto, Lathifah Puji Hastuti, Desinta Dwi Ristiana, Resi Vita Ginting

10.22146/ijc.26491  Abstract views : 1755 |  views : 1828

Density Functional Theory (DFT) and Natural Bond Orbital (NBO) Analysis of Intermolecular Hydrogen Bond Interaction in "Phosphorylated Nata De Coco - Water" 173-178

Sitti Rahmawati, Cynthia Linaya Radiman, Muhamad Abdulkadir Martoprawiro

10.22146/ijc.25170  Abstract views : 1148 |  views : 1879

Molecular Docking Analysis of Ginger Active Compound on Transient Receptor Potential Cation Channel Subfamily V Member 1 (TRPV1) 179-185

Fifteen Aprila Fajrin, Agung Endro Nugroho, Rina Susilowati, Arief Nurrochmad

10.22146/ijc.28172  Abstract views : 1050 |  views : 1582

The Role of E27-K31 and E56-K10 Salt-Bridge Pairs in the Unfolding Mechanism of the B1 Domain of Protein G 186-193

Tony Ibnu Sumaryada, Kania Nur Sawitri, Setyanto Tri Wahyudi

10.22146/ijc.23934  Abstract views : 1095 |  views : 1443

 Indonesian Journal of Chemistry (ISSN 1411-9420 / 2460-1578) - Chemistry Department, Universitas Gadjah Mada, Indonesia.

 10.22146/ijc.23934 View The Statistics of Indones. J. Chem.



Synthesis of Zeolite from Sugarcane Bagasse Ash Using Cetyltrimethylammonium Bromide as Structure Directing Agent

<https://doi.org/10.22146/ijc.22197>

Sriatun Sriatun^(1*), Taslimah Taslimah⁽²⁾, Linda Suyati⁽³⁾

(1) Diponegoro University

(2) Diponegoro University

(3) Diponegoro University

(*) Corresponding Author

Abstract

The purpose of this research is to synthesize zeolite from sugarcane bagasse ash using cetyltrimethylammonium bromide as structure directing agent. This research used cetyltrimethylammonium bromide surfactant to invent the high porosity, surface area, acidity and thermal stability of synthesized zeolite. The Silica was extracted by alkaline fusion using sodium hydroxide solution. The synthesis was conducted by hydrothermal process at 100 °C for 7 days, ageing process for 24 h and calcination at 500 °C for 5 h. The ratio of Si/Al (v/v) was 1, 15 and 25, meanwhile the concentration of cetyltrimethylammonium bromide was 5×10^{-4} M, 1×10^{-3} M and 1×10^{-2} M. The result showed all of product have strong absorbance at $950-1050 \text{ cm}^{-1}$ and $620-690 \text{ cm}^{-1}$, $420-460 \text{ cm}^{-1}$, double ring at $520-570 \text{ cm}^{-1}$, pore opening at $300-370 \text{ cm}^{-1}$. Vibration of -OH as silanol group or water was indicated by broad absorbance at $3400-3450 \text{ cm}^{-1}$. The diffractograms XRD showed that the product had high crystallinity. The composition of product on ratio Si/Al 1 with concentration of cetyltrimethylammonium 10^{-2} M is sodalite, the ratio Si/Al 15 and 25 are NaP1 and SiO₂ quartz and contain 12.23% and 12.19% of Si, 4.17% and 13.18% of Al, respectively. Observation on SEM revealed that the crystal produced using cetyltrimethylammonium bromide were homogenous and regular in shape.

Keywords

surfactant; cetyltrimethylammonium bromide; synthesis; zeolite; sugarcane bagasse

Full Text:

References

- [1] Srinivasan, R., and Sathiya, K., 2010, Experimental study on bagasse ash in concrete, *Int. J. Serv. Learn. Eng.*, 5 (2), 60–66.
- [2] *Indonesian Statistics*, 2012, <http://www.bps.go.id>.
- [3] Hanafi, A., and Nandang, A., 2010, Studi pengaruh bentuk silika dari ampas tebu terhadap kekuatan produk keramik, *Jurnal Kimia Indonesia*, 5 (1), 35–38.
- [4] Norsuraya, S., Fazlena, H., and Norhasyimi, R., 2016, Sugarcane bagasse as a renewable Source of silica to synthesize Santa Barbara Amorphous-15 (SBA-15), *Procedia Eng.*, 148, 839–846.
- [5] Cardoso, A.M., Paprocki, A., Ferret, L.S., Azevedo, C.M.N., and Pires, M., 2015, Synthesis of zeolite Na-P1 under mild conditions using

ARTICLE IN PRESS

List of the accepted articles for future issues.

[Focus & Scope](#)

[Author Guidelines](#)

[Author Fees](#)

[Online Submission](#)

[Publication Ethics](#)

[Plagiarism Policy](#)

[Editorial Board](#)

[Peer Reviewers](#)

[Order Journal](#)

[Visitor Statistics](#)

USER

You are logged in as...
sriatun

- [▶ My Journals](#)
- [▶ My Profile](#)
- [▶ Log Out](#)

ABOUT THE AUTHORS

Sriatun Sriatun

* Corresponding Author

Diponegoro University
Indonesia
Chemistry Department

Taslimah Taslimah

Diponegoro University
Indonesia
Chemistry Department

Linda Suyati

Diponegoro University
Indonesia
Chemistry Department

ARTICLE TOOLS

- Print this article
- Indexing metadata
- How to cite item

Brazilian coal fly ash and its application in wastewater treatment, *Fuel*, 139, 59–67.

[6] Moisés, M.P., da Silva, C.T.P., Meneguín, J.G., Giroto, E.M., and Radovanovic, E., 2013, Synthesis of zeolite NaA from sugarcane bagasse ash, *Mater. Lett.*, 108, 243–246.

[7] Maia, A.Á.B., Neves, R.F., Angélica, R.S., and Pöllmann, H., 2015, Synthesis, optimisation and characterisation of the zeolite NaA using kaolin waste from the Amazon Region. Production of zeolites KA, MgA and CaA, *Appl. Clay Sci.*, 108, 55–60.

[8] Kazemian, H., Naghdali, Z., Kashani, T.G., and Farhadi, F., 2010, Conversion of high silicon fly ash to Na-P1 zeolite: Alkaline fusion followed by hydrothermal crystallization, *Adv. Powder Technol.*, 21 (3), 279–283.

[9] Babajide, O., Musyoka, N., Petrik, L., and Ameer, F., 2012, Novel zeolite Na-X synthesized from fly ash as a heterogeneous catalyst in biodiesel production, *Catal. Today*, 190 (1), 54–60.

[10] Musyoka, N.M., Petrik, L.F., Fatoba, O.O., and Hums, E., 2013, Synthesis of zeolites from coal fly ash using mine waters, *Miner. Eng.*, 53, 9–15.

[11] Baccouche, A., Srasra, E., and El Maaoui, M., 1998, Preparation of Na-P1 and sodalite octahydrate zeolites from interstratified illite-smectite, *Appl. Clay Sci.*, 13 (4), 255–273.

[12] Sánchez-Hernández, R., López-Delgado, A., Padilla, I., Galindo, R., and López-Andrés, S., 2016, One-step synthesis of NaP1, SOD and ANA from a hazardous aluminum solid waste, *Microporous Mesoporous Mater.*, 226, 267–277.

[13] Purnomo, C.W., Salim, C., and Hinode, H., 2012, Synthesis of pure Na-X and Na-A zeolite from bagasse fly ash, *Microporous Mesoporous Mater.*, 162, 6–13.

[14] Wittayakun, J., Khemthong, P., and Prayoonpokarach, S., 2008, Synthesis and characterization of zeolite NaY from rice husk silica, *Korean J. Chem. Eng.*, 25 (4), 861–864.

[15] Faghihian, H., and Godazandeha, N., 2009, Synthesis of nano crystalline zeolite Y from bentonite, *J. Porous Mater.*, 16 (3), 331–335.

[16] Almeida, R.K.S., Gómez-Hortigüela, L., Pinar, A.B., and Peréz-Pariente, J., 2016, Synthesis of ferrierite by a new combination of co-structure-directing agents: 1,6-bis(*N*-methylpyrrolidinium)hexane and tetramethylammonium, *Microporous Mesoporous Mater.*, 232, 218–226.

[17] Lee, H.J., Kim, S.H., Kim, J.H., Park, S.J., and Cho, S.J., 2014, Synthesis and characterization of zeolites MTT and MFI, with controlled morphologies using mixed structure directing agents, *Microporous Mesoporous Mater.*, 195, 205–215.

[18] Hasan, F., Singh, R., Li, G., Zhao, D., and Webley, P.A., 2012, Direct synthesis of hierarchical LTA zeolite *via* a low crystallization and growth rate technique in presence of cetyltrimethylammonium bromide, *J. Colloid Interface Sci.*, 382 (1), 1–12.

[19] Su, S., Ma, H., and Chuan, X., 2016, Hydrothermal synthesis of zeolite A from K-feldspar and its crystallization mechanism, *Adv. Powder Technol.*, 27 (1), 139–144.



[20] Weitkamp, J., and Puppe, L., 1999, *Catalysis and Zeolites: Fundamentals and Applications*, Springer-Verlag Berlin Heidelberg.

[21] Treacy, M.M.J., and Higgins, J.B., 2001, *Collection of Simulated XRD Powder Pattern for Zeolite*, 4th rev. ed., Elsevier Science.

[22] Wang, L., Yang, W., Xin, C., Ling, F., Sun, W., Fang, X., and Yang, R., 2012, Synthesis of nano-zeolite IM-5 by hydrothermal method with the aid of PEG and CTAB, *Mater. Lett.*, 69, 16–19.

 DOI: <https://doi.org/10.22146/ijc.22197>

Article Metrics

 Abstract views : 1156 |  views : 1915





Copyright (c) 2017 Indonesian Journal of Chemistry



This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.

Indonesian Journal of Chemistry (ISSN 1411-9420 / 2460-1578) - Chemistry Department, Universitas Gadjah Mada, Indonesia.

 [View The Statistics of Indones. J. Chem.](#)

-  Email this article
-  Email the author
-  Save to Mendeley
-  Save to Zotero

JOURNAL CONTENT


Search

Search Scope

Browse

-  By Issue
-  By Author
-  By Title
-  Other Journals

INFORMATION

-  For Readers
-  For Authors
-  For Librarians

KEYWORDS

HPLC QSAR TiO₂

adsorption

antioxidant catalyst

characterization chitosan

eugenol extraction fly ash heavy

metals immobilization kinetics

molecular docking photocatalyst

selectivity silica synthesis

transesterification zeolite

Indones. J. Chem.
indexed by:







SJR

Scimago Journal & Country Rank

Enter Journal Title, ISSN or Publisher Name

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

Indonesian Journal of Chemistry


Country [Indonesia](#) -  [SJR Ranking of Indonesia](#)**8**

H Index

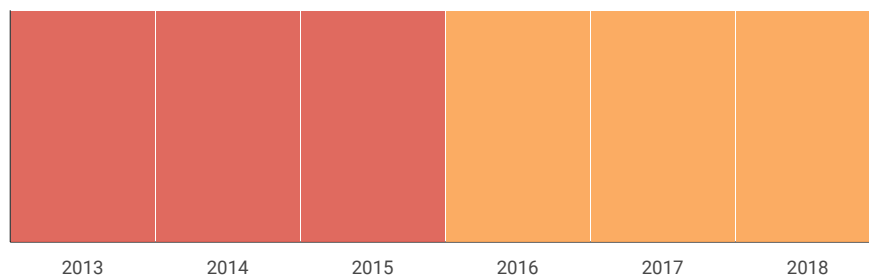

Subject Area and Category [Chemistry](#)
[Chemistry \(miscellaneous\)](#)**Publisher** [Gadjah Mada University](#)**Publication type** Journals**ISSN** 14119420**Coverage** 2012-ongoing**Scope** Indonesian Journal of Chemistry is a peer-reviewed, open access journal that publishes original research articles, review articles, as well as short communication in all areas of chemistry, including educational chemistry, applied chemistry, and chemical engineering.[Homepage](#)[How to publish in this journal](#)[Contact](#)[Join the conversation about this journal](#)

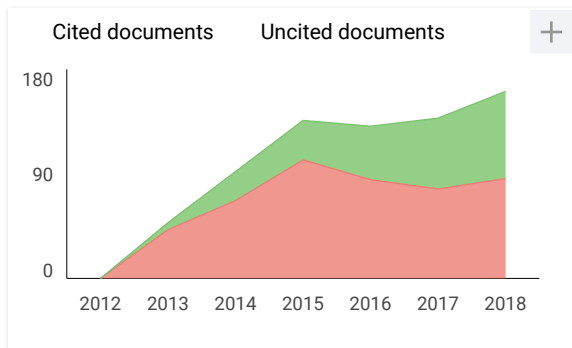
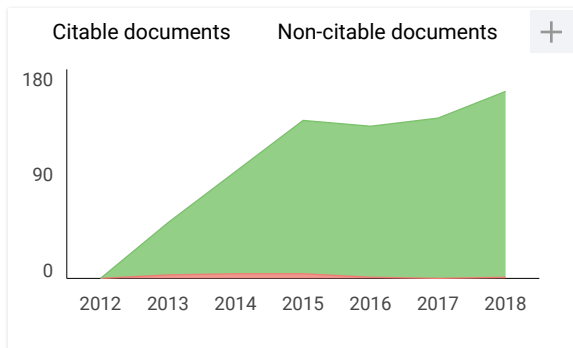
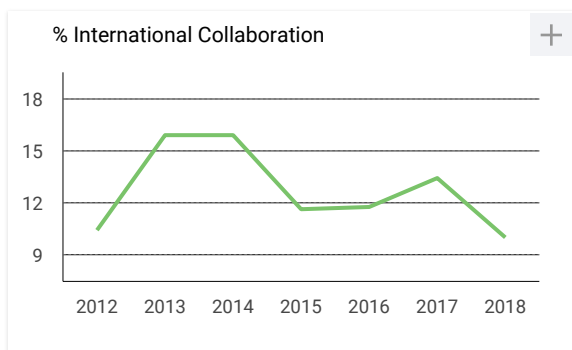
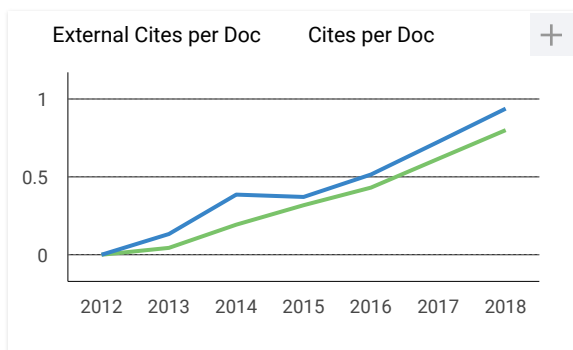
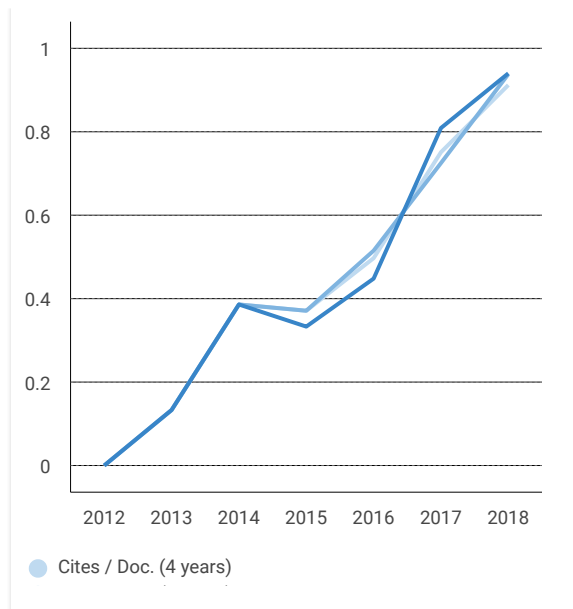
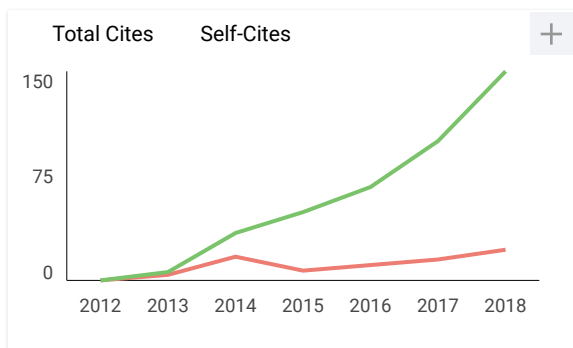
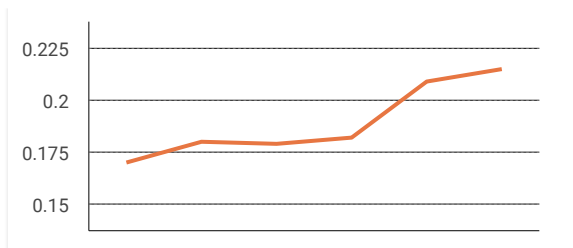
ICMS XXIII - 30-31 July 2020

Call for participation to 23rd International Conference on Multidisciplinary Studies

[euser.org](#)[OPEN](#)Quartiles 

Chemistry (miscellaneous)

SJR Citations per document 



Indonesian Journal of Chemistry

← Show this widget in your own website

Q3 Chemistry (miscellaneous) best quartile

SJR 2018 0.22

powered by scimagojr.com

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

```
<a href="https://www.scimagojr.com/journalsearch.php?q=21100223536&tip=sid&clean=0"
```

ICMS XXIII - 30-31 July 2020

Call for participation to 23rd International Conference on Multidisciplinary Studies

euser.org

OPEN

U **Ulin Sahami** 3 months ago

Excellent

reply

M **Melanie Cornelia** 1 year ago

selamat pagi, saya dosen di Teknologi Pangan UPH....saya mau kirim article penelitian ke journal ini, rata-rata berapa lama review nya? terimakasih infonya

reply

M **Manton Rais** 2 years ago

nice

reply

Leave a comment

Name

Email

(will not be published)

I'm not a robot
reCAPTCHA
[Privacy](#) - [Terms](#)

Submit

The users of Scimago Journal & Country Rank have the possibility to dialogue through comments linked to a specific journal. The purpose is to have a forum in which general doubts about the processes of publication in the journal, experiences and other issues derived from the publication of papers are resolved. For topics on particular articles, maintain the dialogue through the usual channels with your editor.

Developed by:



Powered by:



Follow us on @ScimagoJR

Scimago Lab, Copyright 2007-2020. Data Source: Scopus®

EST MODUS IN REBUS
Horatio (Satire 1.1.106)