


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

Judul Jurnal Ilmiah (Artikel) : Kinetics of the Hydrolysis of Cassava Starch by Glucoamylase and a Granular Starch Hydrolyzing Enzyme
 Nama Penulis : **Hargono Hargono**, Bakti Jos, Andri Cahyo Kumoro
 Jumlah Penulis : 3 Orang
 Status Pengusul : **Penulis Pertama**
 Identitas Jurnal Ilmiah : Nama Jurnal : Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry
 a. Nomor ISSN : 1582-540 X
 b. Volume, Nomor, Bulan, Tahun : 19/ 4/Desember 2018
 c. Penerbit : University of Bacau
 d. DOI artikel (jika ada) : -
 e. Alamat URL Jurnal :
 f. Alamat URL Artikel
 g. Terindeks : SCOPUS, DOAJ
 Kategori Publikasi Jurnal Ilmiah : Jurnal Ilmiah Internasional / Internasional bereputasi terideks SCOPUS H index 6, Q4 dan SJR 0,15
 (beri pada kategori yang tepat) Jurnal Ilmiah Nasional Terakreditasi
 Jurnal Ilmiah Nasional/Nasional terindeks di DOAJ, CABI COPERNICUS

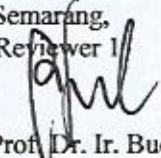
Hasil Penilaian *Peer Review* :

Komponen yang dinilai	Nilai reviewer		Nilai Rata - rata
	Reviewer 1	Reviewer 2	
a Kelengkapan unsur isi buku (20%)	4,00	4,00	4,00
b Ruang lingkup dan kedalaman pembahasan (30%)	11,00	10,00	10,50
c Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	11,00	10,00	10,50
d Kelengkapan unsur dan kualitas terbitan/buku (20%)	10,50	12,00	11,25
Total = (100%)	36,50	36,00	36,25
Nilai pengusul (60% x nilai total)	21,90	21,60	21,75

Reviewer 2


 Prof. Mohammad Djaeni, ST. M.Eng.
 NIP. 197102071995121001
 Bidang Ilmu/Unit kerja : Fakultas Teknik
 Universitas Diponegoro

Semarang,
 Reviewer 1


 Prof. Dr. Ir. Budiyo, M.Si
 NIP. 196602201991021001
 Bidang Ilmu/ Unit Kerja : Fakultas Teknik
 Universitas Diponegoro

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

Judul Jurnal Ilmiah (Artikel) : Kinetics of the Hydrolysis of Cassava Starch by Glucoamylase and a Granular Starch Hydrolyzing Enzyme

Jumlah Penulis : 3 orang

Status Pengusul : **Penulis pertama**/penulis ke..... /penulis korespondensi

Identitas Jurnal Ilmiah : a. Nama Jurnal : Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry

b. Nomor ISSN : 1582-540X

c. Volume, Nomor, Bulan, Tahun : 19/4/ Desember/ 2018

d. Penerbit : University of Bacau, Romania

e. DOI artikel (jika ada) : -

f. Alamat web Jurnal : redactia_ciba@ub.ro

g. Terindeks di Scimagojr/Thomson Reuter ISI Knowledge atau di.....

Kategori Publikasi Jurnal Ilmiah (beri ✓ pada kategori yang tepat)

Jurnal Ilmiah Internasional / Internasional bereputasi terideks SCOPUS H index 6, Q4 dan SJR 0.15

Jurnal Ilmiah Nasional Terakreditasi

Jurnal Ilmiah Nasional/Nasional terindeks di DOAJ, CABI COPERNICUS

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional/ Internasional bereputasi** <input checked="" type="checkbox"/>	Nasional Terakreditasi <input type="checkbox"/>	Nasional*** <input type="checkbox"/>	
a. Kelengkapan unsur isi artikel (10%)	4,00			4,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00			11,00
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12,00			11,00
d. Kelengkapan unsur dan terbitan/jurnal (30%)	12,00			10,50
Total = (100%)	40,00			36,50
Nilai Pengusul	60% x 36,50 = 21,90			

Catatan Penilaian Artikel oleh Reviewer:

- **Kelengkapan unsur isi artikel**
Abstrak memenuhi keseluruhan isi artikel, ditulis dengan bahasa yang benar sesuai kaidah ilmiah, namun belum ada rencana penelitian lanjutan (nilai →10%).
- **Ruang lingkup dan kedalaman pembahasan**
Artikel ini didukung 25 artikel/pustaka sedangkan untuk pembahasan mensitasi dari 11 artikel (44%). Artikel ini hanya mensitasi 3 artikel terbitan 5 tahun terakhir, namun kedalaman pembahasan memadai (nilai →27,5%).
- **Kecukupan dan kemutahiran data/informasi dan metodologi**
Metode yang digunakan sudah tepat sesuai dengan tujuan penelitian. Data percobaan diperoleh dengan metode yang valid dan dapat dipertanggung jawabkan (nilai →27,50%).
- **Kelengkapan unsur dan terbitan/jurnal**
Jurnal ini berkualitas, memenuhi criteria internasional, terindeks SCOPUS, Q4 dengan SJR 0,15 dan H index 6 (nilai →26,25%).
Nilai similaritas artikel berdasarkan Turnitin adalah 15%.

Semarang,

Reviewer 2

Prof. Dr. Ir. Budiyo, M.Si

NIP. 196602201991021001

Unit kerja : Fakultas Teknik Universitas Diponegoro

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

Judul Jurnal Ilmiah (Artikel) : Kinetics of the Hydrolysis of Cassava Starch by Glucoamylase and a Granular Starch Hydrolyzing Enzyme

Jumlah Penulis : 3 orang

Status Pengusul : **Penulis pertama**/penulis ke..... /penulis korespondensi

Identitas Jurnal Ilmiah : a. Nama Jurnal : Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry

b. Nomor ISSN : 1582-540X

c. Volume, Nomor, Bulan, Tahun : 19/4/ Desember/ 2018

d. Penerbit : University of Bacau, Romania

e. DOI artikel (jika ada) : -

f. Alamat web Jurnal : redactia_ciba@ub.ro

g. Terindeks di Scimagojr/Thomson Reuter ISI Knowledge atau di.....

Kategori Publikasi Jurnal Ilmiah (beri ✓ pada kategori yang tepat) : Jurnal Ilmiah Internasional / Internasional bereputasi terideks SCOPUS H index 6, Q4 dan SJR 0.15

Jurnal Ilmiah Nasional Terakreditasi

Jurnal Ilmiah Nasional/Nasional terideks di DOAJ, CABI COPERNICUS

Hasil Penilaian Peer Review :

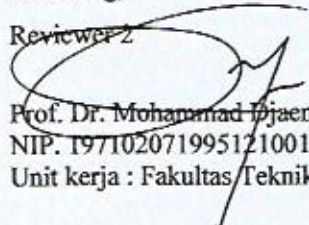
Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional/ Internasional bereputasi**	Nasional Terakreditasi	Nasional***	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
a. Kelengkapan unsur isi artikel (10%)	4,00			4,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00			12,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12,00			10,00
d. Kelengkapan unsur dan terbitan/jurnal (30%)	12,00			10,00
Total = (100%)	40,00			36,00
Nilai Pengusul	60% x 36,00 = 21,60			

Catatan Penilaian Artikel oleh Reviewer:

- **Kelengkapan unsur isi artikel**
Kelengkapan unsur artikel tersaji dengan baik dimana, persamaan, grafik dan tabel juga disitasi dan dibahas (nilai → 10 %)
- **Ruang lingkup dan kedalaman pembahasan**
Artikel ini membahas pengaruh positif enzim tunggal glukoamilase terhadap gula reduksi selama hidrolisis pada suhu 60°C. Hidrolisis konvensional memerlukan 2 enzim yaitu alfa-amilase dan glukoamilase (90-100°C), sehingga penggunaan glukoamilase dapat menghemat energi. Data ditampilkan dengan cukup detail dan dibahas secara komprehensif (nilai → 30%)
- **Kecukupan dan kemutakhiran data /informasi dan metodologi**
Referensi yang disitasi dalam artikel ini ada 25, dimana ada 10 referensi (10 tahun terakhir) atau 40%. Metode yang disajikan dengan tahapan yang jelas dan terstruktur dengan baik. Nilai novelty artikel ini cukup baik nilai → 25%)
- **Kelengkapan unsur dan kualitas terbitan/jurnal**
Penerbit jurnal ini adalah University of Bacau, Romania dengan ISSN 1582-540X. Jurnal ini terideks SCOPUS H index 6, Q4 dan SJR 0.15 (nilai → 25 %)
Nilai similaritas artikel berdasarkan Turnitin adalah 15%.

Semarang,

Reviewer 2


 Prof. Dr. Mohammad Ijaeni, ST., M.Eng.
 NIP. 197102071995121001
 Unit kerja : Fakultas Teknik Universitas Diponegoro



Document details

[< Back to results](#) | 1 of 1[↗ Export](#) [↓ Download](#) [🖨 Print](#) [✉ E-mail](#) [📄 Save to PDF](#) [☆ Add to List](#) [More... >](#)

Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry [Open Access](#)
Volume 19, Issue 4, 2018, Pages 443-454

Kinetics of the hydrolysis of cassava starch by glucoamylase and a granular starch hydrolyzing enzyme (Article)

Hargono, H. [✉](#), Jos, B., Kumoro, A.C. [👤](#)

Diponegoro University, Faculty of Engineering, Department of Chemical Engineering, Jl. Prof. H. Soedarto, S.H., Semarang, 50275, Indonesia

Abstract

[View references \(25\)](#)

Kinetic studies of the enzymatic hydrolysis of cassava starch have been carried out using glucoamylase and granular starch hydrolyzing enzyme (GSHE) as Stargen™ 002. The enzymatic hydrolysis of cassava starch was conducted at pH 4 by employing slurry concentrations of 25-300 g·L⁻¹, temperatures 30-60 °C and 0.5-1.5 % (w/w) of enzymes glucoamylase and Stargen™ 002. Higher temperatures accelerated the enzymatic reaction using glucoamylase, while the similar effect levelled of at 40 °C for hydrolysis using Stargen™ 002. The cassava starch concentrations of 200 and 250 g·L⁻¹ were found as the critical substrate concentrations for lower (glucoamylase 0.5 and 1 %) and higher (glucoamylase 1.5 %) enzyme concentrations used, respectively. Based on the Lineweaver-Burk plot for cassava starch hydrolysis using glucoamylase, the maximum reaction rates, V_{max} for 0.5, 1.0 and 1.5 % (w/w) glucoamylase were 3.55, 5.78 and 9 g·L⁻¹·h⁻¹, while the Michaelis-Menten constants, K_m were 140.35, 140.75 and 152.10 g·L⁻¹. Accordingly, the maximum reaction rates, V_{max} for 0.5, 1 and 1.5 % (w/w) of Stargen™ 002 were 7.19, 11.6 and 18.18 g·L⁻¹·h⁻¹, respectively. While the Michaelis-Menten constants, K_m obtained at those enzyme concentrations were respectively 160.86, 161.31 and 160.85 g·L⁻¹. It is an indication that the rate of starch hydrolysis using Stargen™ 002 is faster than glucoamylase. © 2018 ALMA MATER Publishing House, "VASILE ALECSANDRI" University of Bacău. All rights reserved.

SciVal Topic Prominence ⓘ

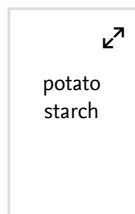
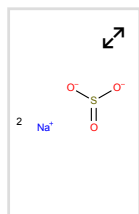
Topic: Starch | Amylose | Digestible starch

Prominence percentile: 99.536



Chemistry database information ⓘ

Substances

[Metrics ⓘ](#) [View all metrics >](#)PlumX Metrics [▼](#)

Usage, Captures, Mentions,
Social Media and Citations
beyond Scopus.

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#)[Set citation feed >](#)

Related documents

Enzymatic hydrolysis of bitter cassava and Dioscorea hispida dennst starches for reducing sugar production at low temperature

Hargono, Jos, B., Kumoro, A.C. (2017) *Advanced Science Letters*

Comparative study on the conventional and non thermal simultaneous saccharification and fermentation of Manihot glaziovii root starch

Hargono, Kumoro, A.C., Jos, B. (2015) *AIP Conference Proceedings*

Simultaneous cold hydrolysis and fermentation of fresh sweet potato

Masiero, S.S., Peretti, A., Trierweiler, L.F. (2014) *Biomass and Bioenergy*

[View all related documents based on references](#)[Find more related documents in Scopus based on:](#)

Author keywords

Indexed keywords

Engineering controlled terms: Enzyme kinetics Hydrolysis Kinetics Plants (botany) Reaction rates Starch

Engineering uncontrolled terms Cassava Enzyme concentrations Glucoamylase GSHE Lineweaver-Burk plots Maximum reaction rate Michaelis-Menten constant Substrate concentrations

Engineering main heading: Enzymatic hydrolysis

ISSN: 1582540X
Source Type: Journal
Original language: English

Document Type: Article
Publisher: ALMA MATER Publishing House âˆ“ "VASILE ALECSANDRI" UNIVERSITY OF BACAU

References (25)

[View in search results format >](#)

All Export Print E-mail Save to PDF Create bibliography

1 Srichuwong, S., Orikasa, T., Matsuki, J., Shiina, T., Kobayashi, T., Tokuyasu, K.
Sweet potato having a low temperature-gelatinizing starch as a promising feedstock for bioethanol production
(2012) *Biomass and Bioenergy*, 39, pp. 120-127. Cited 24 times.
doi: 10.1016/j.biombioe.2011.12.023
[View at Publisher](#)

2 Ruiz, M.I., Sanchez, C.I., Torrresa, R.G., Molina, D.R.
Enzymatic hydrolysis of cassava starch for production of bioethanol with a colombian wild yeast strain ([Open Access](#))
(2011) *Journal of the Brazilian Chemical Society*, 22 (12), pp. 2337-2343. Cited 33 times.
http://jbc.sbc.org.br/online/2011/vol22_n12/13-11205AR_CLAQ.pdf
doi: 10.1590/S0103-50532011001200014
[View at Publisher](#)

3 Sharma, V., Rausch, K.D., Tumbleson, M.E., Singh, V.
Comparison between granular starch hydrolyzing enzyme and conventional enzymes for ethanol production from maize starch with different amylose: Amylopectin ratios
(2007) *Starch/Staerke*, 59 (11), pp. 549-556. Cited 35 times.
doi: 10.1002/star.200700631
[View at Publisher](#)

4 Power, R.F.
(2003) *Enzymatic Conversion of Starch to Fermentable Sugars In*, pp. 23-32. Cited 21 times.
The Alcohol Textbook, 4th edition, Nottingham University Press, Nottingham

- 5 Robertson, G.H., Wong, D.W.S., Lee, C.C., Wagschal, K., Smith, M.R., Orts, W.J.
Native or raw starch digestion: A key step in energy efficient biorefining of grain

(2006) *Journal of Agricultural and Food Chemistry*, 54 (2), pp. 353-365. Cited 157 times.
doi: 10.1021/jf051883m

[View at Publisher](#)

- 6 Sarikaya, E., Higasa, T., Adachi, M., Mikami, B.
Comparison of degradation abilities of α - and β -amylases on raw starch granules

(2000) *Process Biochemistry*, 35 (7), pp. 711-715. Cited 128 times.
doi: 10.1016/S0032-9592(99)00133-8

[View at Publisher](#)

- 7 Govindasamy, S., Oates, C.G., Wong, H.A.
Characterization of changes of sago starch components during hydrolysis by a thermostable alpha-amylase

(1992) *Carbohydrate Polymers*, 18 (2), pp. 89-100. Cited 51 times.
doi: 10.1016/0144-8617(92)90130-I

[View at Publisher](#)

- 8 Hyun, H.H., Zeikus, J.G.
General biochemical characterization of thermostable extracellular β -amylase from *Clostridium thermosulfurogenes*

(1985) *Applied and Environmental Microbiology*, 49 (5), pp. 1162-1167. Cited 103 times.

[View at Publisher](#)

- 9 Kimura, A., Robyt, J.F.
Reaction of enzymes with starch granules: kinetics and products of the reaction with glucoamylase

(1995) *Carbohydrate Research*, 277 (1), pp. 87-107. Cited 95 times.
doi: 10.1016/0008-6215(95)00196-Z

[View at Publisher](#)

- 10 Masiero, S.S., Peretti, A., Trierweiler, L.F., Trierweiler, J.O.
Simultaneous cold hydrolysis and fermentation of fresh sweet potato

(2014) *Biomass and Bioenergy*, 70, pp. 174-183. Cited 18 times.
<http://www.journals.elsevier.com.proxy.undip.ac.id:2048/biomass-and-bioenergy/>
doi: 10.1016/j.biombioe.2014.08.007

[View at Publisher](#)

- 11 Shariffa, Y.N., Karim, A.A., Fazilah, A., Zaidul, I.S.M.
Enzymatic hydrolysis of granular native and mildly heat-treated tapioca and sweet potato starches at sub-gelatinization temperature

(2009) *Food Hydrocolloids*, 23 (2), pp. 434-440. Cited 90 times.
doi: 10.1016/j.foodhyd.2008.03.009

[View at Publisher](#)

- 12 Saha, B.C., Ueda, S.
Alcoholic fermentation of raw sweet potato by a nonconventional method using *Endomycopsis fibuligera* glucoamylase preparation
(1983) *Biotechnology and Bioengineering*, 25 (4), pp. 1181-1186. Cited 36 times.
doi: 10.1002/bit.260250425
[View at Publisher](#)
-
- 13 Uthumporn, U., Shariffa, Y.N., Karim, A.A.
Hydrolysis of native and heat-treated starches at sub-gelatinization temperature using granular starch hydrolyzing enzyme
(2012) *Applied Biochemistry and Biotechnology*, 166 (5), pp. 1167-1182. Cited 30 times.
doi: 10.1007/s12010-011-9502-x
[View at Publisher](#)
-
- 14 Li, J., Vasanthan, T., Bressler, D.C.
Improved cold starch hydrolysis with urea addition and heat treatment at subgelatinization temperature
(2012) *Carbohydrate Polymers*, 87 (2), pp. 1649-1656. Cited 23 times.
doi: 10.1016/j.carbpol.2011.09.061
[View at Publisher](#)
-
- 15 Hargono, H., Jos, B., Kumoro, A.C.
Kinetics of the enzymatic hydrolysis of sweet cassava starch, bitter cassava, and gadung (*Dioscorea hispida* dennst) Flours at low temperature ([Open Access](#))
(2017) *Bulletin of Chemical Reaction Engineering & Catalysis*, 12 (2), pp. 256-262. Cited 6 times.
<https://ejournal2.undip.ac.id/index.php/bcrec/article/view/808/733>
doi: 10.9767/bcrec.12.2.808.256-262
[View at Publisher](#)
-
- 16 Tomazik, P., Horton, D.
Enzymatic Conversion of Starch
(2012) *Advances in Carbohydrate Chemistry and Biochemistry*, 68, pp. 103-104.
-
- 17 Miller, G.L.
Use of Dinitrosalicylic Acid Reagent for Determination of Reducing Sugar
(1959) *Analytical Chemistry*, 31 (3), pp. 426-428. Cited 18198 times.
doi: 10.1021/ac60147a030
[View at Publisher](#)
-
- 18 Michaelis, L., Menten, M.L.
Die Kinetik der invertinwirkung
(1913) *Biochemistry Zeitung*, 49, pp. 333-369. Cited 2669 times.
-
- 19 Lehninger, A.L.
(2008) *Principles of Biochemistry*, 194. Cited 612 times.
5th edition, W.H. Freeman, New York

- 20 Shanavas, S., Padmaja, G., Moorthy, S.N., Sajeev, M.S., Sheriff, J.T.
Process optimization for bioethanol production from cassava starch using novel eco-friendly enzymes

(2011) *Biomass and Bioenergy*, 35 (2), pp. 901-909. Cited 71 times.
doi: 10.1016/j.biombioe.2010.11.004

[View at Publisher](#)

- 21 Matsumura, M., Hirata, J., Ishii, S., Kobayashi, J.
Kinetics of saccharification of raw starch by glucoamylase

(1988) *Journal of Chemical Technology & Biotechnology*, 42 (1), pp. 51-67. Cited 19 times.
doi: 10.1002/jctb.280420107

[View at Publisher](#)

- 22 Konsula, Z., Liakopoulou-Kyriakides, M.
Hydrolysis of starches by the action of an α -amylase from *Bacillus subtilis*

(2004) *Process Biochemistry*, 39 (11), pp. 1745-1749. Cited 101 times.
doi: 10.1016/j.procbio.2003.07.003

[View at Publisher](#)

- 23 Nigam, P., Singh, D.
Enzyme and microbial systems involved in starch processing

(1995) *Enzyme and Microbial Technology*, 17 (9), pp. 770-778. Cited 258 times.
doi: 10.1016/0141-0229(94)00003-A


[View at Publisher](#)

- 24 Zhang, Q., Wu, D., Lin, Y., Wang, X., Kong, H., Tanaka, S.
Substrate and product inhibition on yeast performance in ethanol fermentation

(2015) *Energy and Fuels*, 29 (2), pp. 1019-1027. Cited 43 times.
<http://pubs.acs.org/journal/enfuem>
doi: 10.1021/ef502349v

[View at Publisher](#)

- 25 Akhtar, M.S., Saleem, M., Akhtar, M.W.
Saccharification of Lignocellulosic Materials by the Cellulases of *Bacillus subtilis*
(2001) *International Journal of Agriculture and Biology*, 3, pp. 199-202. Cited 27 times.

 Hargono, H.; Diponegoro University, Faculty of Engineering, Department of Chemical Engineering, Jl. Prof. H. Soedarto, S.H., Semarang, Indonesia; email:hargono@che.undip.ac.id

© Copyright 2019 Elsevier B.V., All rights reserved.

ELSEVIER

[Terms and conditions ↗](#) [Privacy policy ↗](#)

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.

 RELX



Source details

Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry

Open Access ⓘ

Scopus coverage years: from 2011 to 2019

Publisher: University of Bacau

ISSN: 1582-540X

Subject area: [Chemical Engineering: General Chemical Engineering](#) [Agricultural and Biological Sciences: Food Science](#)
[Chemistry: General Chemistry](#) [Biochemistry, Genetics and Molecular Biology: Biotechnology](#)

CiteScore 2018

0.47 ⓘ

SJR 2018

0.153 ⓘ

SNIP 2018

0.508 ⓘ

[View all documents >](#)

[Set document alert](#)

[Save to source list](#) [Journal Homepage](#)

[CiteScore](#) [CiteScore rank & trend](#) [CiteScore presets](#) [Scopus content coverage](#)

CiteScore 2018 ▾

Calculated using data from 30 April, 2019

CiteScore rank ⓘ

$$0.47 = \frac{\text{Citation Count 2018}}{\text{Documents 2015 - 2017}^*} = \frac{51 \text{ Citations} >}{108 \text{ Documents} >}$$

*CiteScore includes all available document types

[View CiteScore methodology >](#) [CiteScore FAQ >](#)

Category Rank Percentile

Chemical Engineering #201/270 25th
└ General Chemical Engineering

Agricultural and Biological Sciences #210/272 22nd
└ Food Science

[View CiteScore trends >](#)

[Add CiteScore to your site](#) 🔗

CiteScoreTracker 2019 ⓘ

Last updated on 09 April, 2020
Updated monthly

$$0.85 = \frac{\text{Citation Count 2019}}{\text{Documents 2016 - 2018}} = \frac{99 \text{ Citations to date} >}{116 \text{ Documents to date} >}$$

Metrics displaying this icon are compiled according to Snowball Metrics ↗, a collaboration between industry and academia.

About Scopus

[What is Scopus](#)
[Content coverage](#)
[Scopus blog](#)
[Scopus API](#)
[Privacy matters](#)

Language

[日本語に切り替える](#)
[切换到简体中文](#)
[切换到繁體中文](#)
[Русский язык](#)

Customer Service

[Help](#)
[Contact us](#)

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.



Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry

SCSCC6

- » About
- » Editorial Advisory Board
- » Issues [47]
- » Peer Review
- » Authors Instructions
- » Browse
- » Search
- » Contact

Journals

- » MOCM
- » SCSCC6
- » SCSSM
- » TSTM
- » CP
- » SCSB
- » INTERSTUDIA
- » GYMNASIUM
- » JESR
- » SSRSMI
- » JIPED
- » PLUMEE
- » SCECO
- » SCS

Browse abstracts

- » Browse by keywords
- » Browse by authors
- » Browse by titles

SCIENTIFIC STUDY & RESEARCH - Chemistry and Chemical Engineering, Biotechnology, Food Industry (STUDII ȘI CERCETĂRI ȘTIINȚIFICE - Chimie și Inginerie Chimică, Biotehnologii, Industrie Alimentară) is a quarterly journal published by the Department of Chemistry and Engineering of Food Safety and Environmental Protection under the aegis of Alma Mater Publishing House of the University of Bacău, Romania.



The Journal SCIENTIFIC STUDY & RESEARCH - Chemistry & Chemical Engineering, Biotechnology, Food Industry is an Open Access Publication according to the BOAI definition.

University "Vasile Alecsandri" of Bacău, Alma Mater Publishing House, or any other entity does not charge readers or their institutions for access, and the users have the right to read, download, copy, distribute, print, search, or link to the full texts of the articles published online.

Users can use and reuse the material published in the journal but only for non-commercial purposes. Publishers prohibit building upon content by not allowing Derivatives (the altering, transformation, or building upon content) to be made.

SCIENTIFIC STUDY & RESEARCH - Chemistry and Chemical Engineering, Biotechnology, Food Industry publishes refereed articles from the fields of fundamental and applied chemistry, focusing but not limiting on:

1. organic, inorganic, analytical, environmental, physical chemistry, biochemistry
2. chemical, biochemical, food, environmental engineering and technology

The Editors welcome articles based on original research, findings from re-examination and interpretation of existing data and reviews of important issues. Also, appropriate books for review, full details of forthcoming scientific events or chronicles of past events could be sent to Editor-in-Chief for inclusion.

All papers are peer reviewed by the members of the international Editorial Advisory Board.

The papers published in the journal are indexed in Thomson Reuters - Web of Science Core Collection - ESCI (Emerging Sources Citation Index) - starting with volume 16 (1) - 2015. Also, the papers published in the journal are indexed and abstracted in the following International Data Bases:

1. *Chemical Abstracts* -USA (<http://www.cas.org/Support/DDS/ddsearch.html>) - since 2002;
2. *Viniti* - Russia (<http://catalog.viniti.ru/si.asp>) - since 2003;
3. *CSA* - USA (<http://www.csa.com/>) - since 2003;
4. *Directory of Open Access Journals* - Sweden (<http://www.doaj.org/doaj?func=openurl&issn=1582540X&genre=journal>) - since 2010;
5. *Index Copernicus* - Poland (http://journals.indexcopernicus.com/search_journal.php) - since 2010.
6. *SCOPUS - Elsevier, The Netherlands* (<http://www.scopus.com/home.url>) since 2011 starting with Vol. 11, no.1/2011;
7. *ProQuest* - UK (<http://www.proquest.co.uk/en-UK/default.shtml>) since 2011.

The journal is also formally recognized by the Romanian Ministry of Education and Research, through its National University Research Council (CNCSIS), as a B+ type publication (second to ISI indexed journals).



Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry

SCSCC6

- » About
- » Editorial Advisory Board
- » Issues [47]
- » Peer Review
- » Authors Instructions
- » Browse
- » Search
- » Contact

Journals

- » MOCM
- » SCSCC6
- » SCSSM
- » TSTM
- » CP
- » SCSB
- » INTERSTUDIA
- » GYMNASIUM
- » JESR
- » SSRSMI
- » JIPED
- » PLUMEE
- » SCECO
- » SCS

Browse abstracts

- » Browse by keywords
- » Browse by authors
- » Browse by titles

Editorial advisory board

1. **Mohamed Akssira**, Université "Hassan II", Mohammedia, Maroc
2. **Petru Alexe**, "Dunărea de Jos" University, Galați, Romania
3. **Mihaela Badea**, University of București, Romania
4. **Thierry Besson**, Université de Rouen, France
5. **Chakib Bouallou**, ParisTech MINES, France
6. **Dan Cașcaval**, "Gheorghe Asachi" Technical University, Iași, Romania
7. **Jorj Ciumac**, Technical University of Moldova, Chișinău, Moldova
8. **János Csapó**, University of Kaposvár, Hungary
9. **Rodica-Mihaela Dinică**, "Dunărea de Jos" University, Galați, Romania
10. **Libasse Diop**, "Cheikh Anta Diop" University, Dakar, Senegal
11. **Gholamreza Djelveh**, Université "Blaise Pascal", ENSC, Clermont-Ferrand, France
12. **Galina Dragalina**, State University of Moldova, Chișinău, Moldova
13. **Anca Dumbrava**, "Ovidius" University, Constanta, Romania
14. **Claire Elfakir**, Université d'Orléans, France
15. **El Mokhtar Essassi**, Université "Mohammed V", Agdal-Rabat, Maroc
16. **Adriana Fînar**, "Vasile Alecsandri" University, Bacău, Romania
17. **Lucian Gavrilă**, "Vasile Alecsandri" University, Bacău, Romania
18. **Maria Gavrilă**, "Gheorghe Asachi" Technical University, Iași, Romania
19. **Solo Goldstein**, Institut "Servier", Paris, France
20. **Pierre Grandclaude**, Université Lille Nord de France, Université des Sciences et Technologies Lille 1, ENSC, Lille, France
21. **Fabrice Gros**, ENSC Clermont-Ferrand, France
22. **Gérald Guillaumet**, Université d'Orléans, France
23. **Horia Iovu**, "Politehnica" University, București, Romania
24. **Gheorghita Jinescu**, "Politehnica" University, București, Romania
25. **Michel Lafosse**, Université d'Orléans, France
26. **Ioan Mămăligă**, "Gheorghe Asachi" Technical University, Iași, Romania
27. **Raluca Delia Mocanu**, "Alexandru Ioan Cuza" University, Iași, Romania
28. **Giuseppe Montevocchi**, University of Modena and Reggio Emilia, Italy
29. **Zeeshan Nawaz**, University of Engineering & Technology, Lahore, Pakistan
30. **Valentin Nedeff**, "Vasile Alecsandri" University, Bacău, Romania
31. **Ileana Denisa Nistor**, "Vasile Alecsandri" University, Bacău, Romania
32. **Rodica Olar**, University of București, Romania
33. **Mircea Nicolae Palamaru**, "Alexandru Ioan Cuza" University, Iași, Romania

34. **Vianney Pichereau**, Université de Bretagne Occidentale, Brest, France
35. **Ionel Marcel Popa**, "Gheorghe Asachi" Technical University, Iași, Romania
36. **Sorin Ioan Roșca**, "Politehnica" University, București, Romania
37. **Ilie Siminiceanu**, "Gheorghe Asachi" Technical University, Iași, Romania
38. **Rodica Sturza**, Technical University of Moldova, Chișinău, Moldova
39. **Gheorghe Surpățeanu**, "Vasile Alecsandri" University, Bacău, Romania
40. **Franck Suzenet**, Université d'Orléans, France
41. **Alexandru Szép**, "Sapientia" University, Cluj-Napoca, Romania
42. **Valérie Thiery**, Université de La Rochelle, France
43. **Yves Troin**, Université "Blaise Pascal", ENSC, Clermont-Ferrand, France
44. **Alina Violeta Ursu**, Université "Blaise Pascal", Clermont-Ferrand, France

See also in SCSCC6:

- [About SCSCC6](#)
- [Issues of SCSCC6 \[47\]](#)
- [Peer Review for SCSCC6](#)
- [Instructions for Authors of SCSCC6 articles](#)
- [Browse abstracts for SCSCC6](#)
- [Search in SCSCC6](#)
- [Contact SCSCC6 editorial board](#)

Quick search



Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry

Issue: SCSCC6 - Volume 19, No. 4 (2018)

CSCC6 - Volume 19, No. 4 (2018)

Abstracts: 10 records

RAQUEL TEIXEIRA, JOANA BARBOSA, HELENA ALBANO, CLÁUDIA MACIEL, JOANA SILVA, JORGE A. SARAIVA, SÓNIA M. CASTRO, , PAULA TEIXEIRA
 PROCESSING SLIME FROM SNAIL (HELIX ASPERSA MAXIMA): A PRELIMINARY STUDY ON THE EFFECT ON MICROBIAL LOAD

JACQUES SAWADOGO, MOUSSA BOUGOUMA, AMINATA KABORE, DASMANE BAMBARA, JEAN BOUKARI LEGMA
 ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY CHARACTERIZATION OF KITCHEN UTENSILS USED AS MATERIALS FOR LOCAL COOKING IN TWO CULINARY MEDIA

HERMIN P. KUSUMANINGRUM, MUHAMMAD ZAINURI, INDRAS MARHAENDRAJAYA
 PRODUCTION OF SILVER NANOPARTICLE FROM CHLORELLA VULGARIS AND DUNALIELLA SALINA

İBRAHİM DOYMAZ
 EFFECT OF PRE-TREATMENT AND AIR TEMPERATURE ON DRYING KINETICS AND QUALITY OF JERUSALEM ARTICHOKE

OMAR MECHRAOUI, SEGNI LADJEL, MED SAID NEDJIMI, MOHAMED LAKHDAR BELFAR, YOUNSE MOUSSAOUI
 DETERMINATION OF POLYPHENOLS CONTENT, ANTIOXIDANT AND ANTIBACTERIAL ACTIVITY OF NIGELLA SATIVA L. SEED PHENOLIC EXTRACTS

MARIA S. CHIȘ, ALINA STURZA, ADRIANA PĂUCEAN, SIMONA MAN, VLAD MUREȘAN, ANAMARIA POP, SEVASTIȚA MÛȘTE
 COMPARATIVE STUDY REGARDING THE EFFICIENCY OF SOME COMMERCIAL LACTIC STARTERS FROM THE ROMANIAN INGREDIENTS MARKET FOR BAKERY INDUSTRY

EMILIAN MOȘNEGUȚU, VALENTIN NEDEFF, NARCIS BÂRSAN, DRAGOȘ RUSU
 THE INFLUENCE OF AIR VELOCITY ON THE BEHAVIOR OF A SOLID PARTICLE DISPLACEMENT IN A VERTICAL PATH

HARGONO HARGONO, BAKTI JOS, ANDRI CAHYO KUMORO
 KINETICS OF THE HYDROLYSIS OF CASSAVA STARCH BY GLUCOAMYLASE AND A GRANULAR STARCH HYDROLYZING ENZYME

ALINA COCHIORCA, VALENTIN NEDEFF, , NARCIS BÂRSAN, EMILIAN FLORIN MOȘNEGUȚU, MIRELA PANAINTE-LEHĂDUȘ, CLAUDIA TOMOZEI
 ANALYSIS OF WATER QUALITY FOR TWO RIVERS LOCATED NEAR A MINING AREA

M. S. KOKINA, M. FRIQUI, M. M. SHAMTSYAN, V. S. SIBIRTSEV, L. V. KRASNIKOVA, V. G. KONUSOVA, A. S. SIMBIRTSEV
 INFLUENCE OF PLEUROTUS OSTREATUS B-GLUCANS ON THE GROWTH AND ACTIVITY OF CERTAIN LACTIC ACID BACTERIA

SCSCC6

- » About
- » Editorial Advisory Board
- » Issues [47]
- » Peer Review
- » Authors Instructions
- » Browse
- » Search
- » Contact

Journals

- » MOCM
- » SCSCC6
- » SCSSM
- » TSTM
- » CP
- » SCSB
- » INTERSTUDIA
- » GYMNASIUM
- » JESR
- » SSRSMI
- » JIPED
- » PLUMEE
- » SCECO
- » SCS

Browse abstracts

- » Browse by keywords
- » Browse by authors
- » Browse by titles