SYARAT TAMBAHAN USULAN GURU BESAR/PROFESOR

a/n. DR. JONI AGUSTIAN, S.T., M.Sc.

REVIEWER JURNAL INTERNASIONAL BEREPUTASI #01

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Reviewer Invitation for CEJ-D-17-03779

1 message

King Lun Yeung <eesserver@eesmail.elsevier.com> Tue, May 9, 2017 at 5:14 AM
Reply-To: King Lun Yeung <klyeung@ust.hk>
To: joni.agustian@eng.unila.ac.id

Ms. Ref. No.: CEJ-D-17-03779
Title: A green process for synthesis of geraniol esters by immobilised lipase from Candida antarctica B fraction in nonaqueous reaction media: optimization and kinetic modelling
Chemical Engineering Journal

Dear Dr. Agustian,

High quality scientific journals rely heavily on peer reviewing to maintain their standards. Therefore, I hope you will accept to review the above-mentioned manuscript that has been submitted for publication in Chemical Engineering Journal. To help you decide, the abstract is attached below. Please note the invitation will be active for 10 days. If there is no response until 10 days, the invitation will automatically expire.

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Professor
Department of Chemical & Biomolecular Engineering
Hong Kong University of Science and Technology
Manoj P Kamble, Ph D (Tech);

ABSTRACT:
Biotransformation approach for synthesis of molecules such as flavors, perfumes and fragrances has great commercial advantage of permitting them to be marketed as "natural" and also they offer to the exquisite selectivity of enzymes that can be superior over chemical catalysis. Geraniol esters are much sought after and thus their synthesis was studied in this work. The ability of various commercially available lipases such as Novozym 435, Lipozyme RM IM, and Lipozyme TL IM to catalyze the synthesis of geranyl acetate was investigated in non-aqueous reaction media at 55 °C. The effect of reaction medium engineering parameters on the initial rate of reaction and conversion were studied. Various acids, aromatic and vinyl esters were used as a substrate in 1:4 molar ratio. Among all esters synthesized vinyl esters were in good yield (77-100%) compared to aromatic esters (5-82%) and acids (7-31%). The reaction kinetics of esterification of geraniol with vinyl acetate was
described by generating Lineweaver-Burk plots. The enzyme kinetic constants suggest the ternary complex (ordered bi-bi) mechanism with inhibition of geraniol. Polymath 6.0 software was used to validate the proposed model.

****

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Thank you for the review of CEJ-D-17-03779

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Ms. Ref. No.: CEJ-D-17-03779
Title: A green process for synthesis of geraniol esters by immobilised lipase from Candida antarctica B fraction in nonaqueous reaction media: optimization and kinetic modelling
Chemical Engineering Journal

Dear Dr. Agustian,

Many thanks for your review of this manuscript. Your input is essential in order to maintain the quality of the Chemical Engineering Journal.

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Dr. King Lun Yeung
Editor
Chemical Engineering Journal

Professor
Department of Chemical & Biomolecular Engineering
Hong Kong University of Science and Technology

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Reviewer Notification of Editor Decision

1 message

King Lun Yeung <eesserver@eesmail.elsevier.com> Fri, Jun 16, 2017 at 12:36 PM
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Ref: CEJ-D-17-03779
Title: A green process for synthesis of geraniol esters by immobilised lipase from Candida antarctica B fraction in nonaqueous reaction media: optimization and kinetic modelling
Article Type: Research Paper

Dear Dr. Agustian,

Thank you once again for reviewing the above-referenced paper. With your help the following final decision has now been reached:

Editor Decision: Reject

We appreciate your time and effort in reviewing this paper and greatly value your assistance as a reviewer for Chemical Engineering Journal.

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Yours sincerely,

Dr. King Lun Yeung
Editor
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Professor
Department of Chemical & Biomolecular Engineering
Hong Kong University of Science and Technology

A green process for synthesis of geraniol esters by immobilised lipase from Candida antarctica B fraction in nonaqueous reaction media: optimization and kinetic modelling

This article contains synthesis of geraniol esters via enzymatic catalysis using Novozyme 435 (commercial CALB) in non-aqueous media/organic solvents. It describes selection of the specific immobilized enzyme and solvent. It describes the effects of the operational factors on results i.e. conversions of the enzymatic reaction through one-factor-at-a-time (OFAT) method. After optimum value from each operational factor is conclude, the authors estimated values of kinetic constants and the reaction mechanism.

ANALYSES

TITTLE: It contains "green" word, but it does not define the meaning of this word based-on the experiments point of views (authors should define what a green process is?) in the introduction.

HIGHLIGHTS: Need to be improved as grammatical errors and incomplete sentence are available

ABSTRACT:
- Need to rewritten as grammatical errors are available and some sentences cannot be understood.
- Please add a green process definition
- Need to mentioning background and aim(s) of the experiments.
- Need so explain the experimental results on the operating parameters

INTRODUCTION:
- Need to mention explicitly novelty of the research
- Some grammatical errors are found

MATERIALS AND METHODS:
- Need to state how to maintain homogeneity of the reaction mixture in synthesis of the geraniol esters
- Grammatical errors are found
- State operating parameters for the enzyme kinetic observations besides the substrate concentrations.

RESULTS AND DISCUSSION:
- This section describes results of the experiments. However, no justification on the results is found in every subsection of this part.
- It contains language problems and grammatical errors.
- The reaction consists of 2 (two) substrate. Subsection of *3.10. Enzymatic kinetic model based on initial rate measurements* should have 2 graphs showing each substrate versus reaction rate. Figure 8A does not show the plot of Lineweaver Burk, hence it is difficult to conclude type of inhibition. Please explain the occurred inhibition (s) graphically.
- The reaction kinetic operating conditions were based on the optimum operating parameters developed by one-factor-at-a-time (OFAT) method. Since OFAT can miss optimal setting of factors, it is not suggested to obtain the reaction kinetics using this method.

CONCLUSION: state the results developed by OFAT method.

REFERENCES: ok … many recent articles.

Hence, it is difficult for to accept the article in the present conditions for publication in CEJ.

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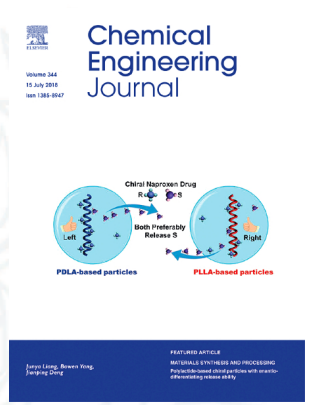

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JONI AGUSTIAN

In recognition of the review made for the journal

The Editors of *CHEMICAL ENGINEERING JOURNAL*
Elsevier, Amsterdam, The Netherlands

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See also: Biochemical Engineering Journal

Formerly known as: Chemical Engineering Journal and the Biochemical Engineering Journal

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Chemical Engineering Journal

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Chemical Engineering (miscellaneous)

Chemistry
Chemistry (miscellaneous)

Engineering
Industrial and Manufacturing Engineering

Environmental Science
Environmental Chemistry

PUBLISHER

Elsevier

H-INDEX

198

PUBLICATION TYPE

Journals

ISSN

13858947

COVERAGE

1971, 1973-1977, 1979, 1983, 1988, 1992-2020

INFORMATION

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SCOPE

The Chemical Engineering Journal focuses upon three aspects of chemical engineering: chemical reaction engineering, environmental chemical engineering, and materials synthesis and processing. The Chemical Engineering Journal is an international research journal and invites contributions of original and novel fundamental research. The journal aims to provide an international forum for the presentation of original fundamental research, interpretative reviews and discussion of new developments in chemical engineering. Papers which describe novel theory and its application to practice are welcome, as are those which illustrate the transfer of techniques from other disciplines. Reports of carefully executed experimental work, which is soundly interpreted are also welcome. The overall focus is on original and rigorous research results which have generic significance.

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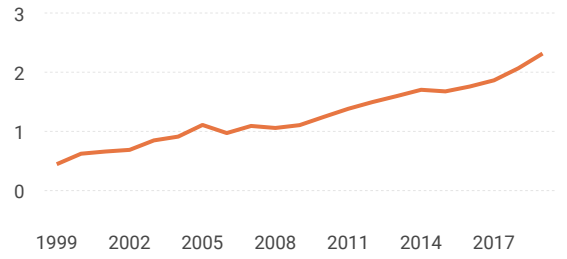

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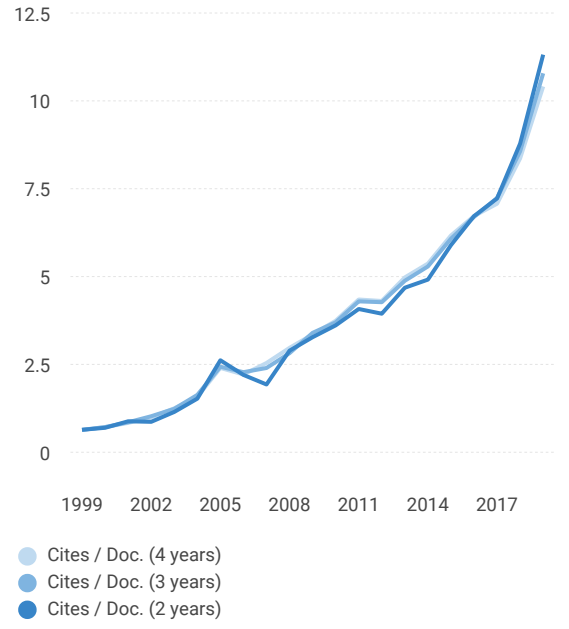

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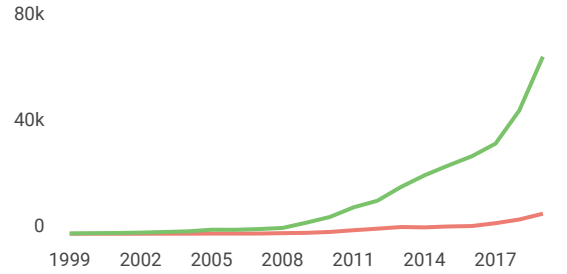

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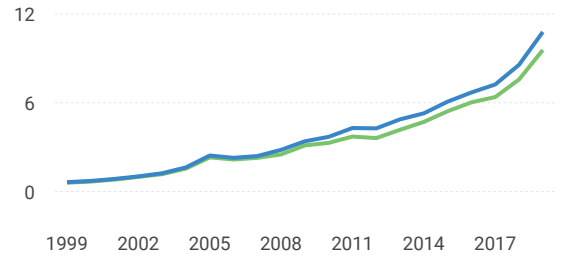

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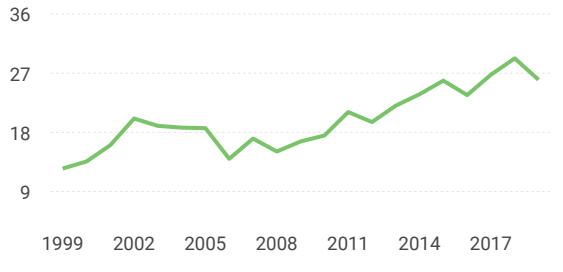

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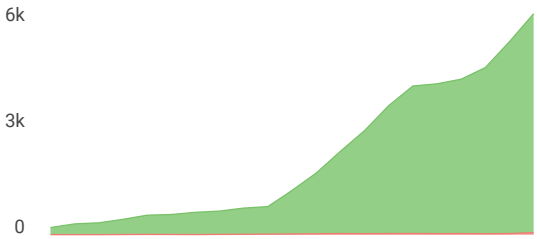

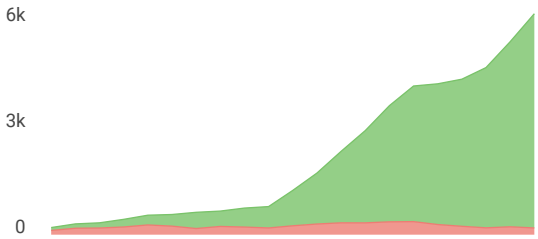

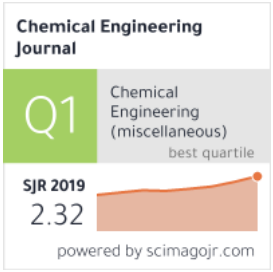

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S **Samariddin Majidov** 1 year ago

Study of the physicochemical and physicomechanical properties of superplastic concretes of a new generation based on local raw materials

S.R.Mazhidov

Tashkent Institute of Architecture and Construction, Department of Building Materials and Chemistry, Tashkent city of the Republic of Uzbekistan

ABSTRACT: A new generation superplasticizer based on local raw materials is the study of the newest concrete structure and the development of innovative technologies. The scientific significance of the research results is determined by the method of obtaining a highly effective superplasticizer, determined by the polymer change in the country and the optimal synthesis conditions based on polycarboxylates, and the law of increasing the plasticizing activity of complex additives can be used to obtain new plastic additives. The practical significance of the work is manifested in the definition of a superplasticizer, which can be used as a superplasticizer as a dispersant of the mineral suspension in the regulation of the rheological properties of concrete mixtures. This will increase the resistance of cement, reduce cement consumption by 10-15% and reduce the import of superplasticizer for concrete and concrete products.

KEY WORDS: Complex chemical additive, small and large fillers, superplasticizing additives, physical and chemical properties of concrete, stability and deformability.

I. INTRODUCTION

The relevance and relevance of the topic of the thesis. In the world in the field of construction is increasing the share of using new types of environmentally friendly materials, the use of efficient energy-saving technologies. In particular, in developed countries such as the USA, Germany, and Japan, certain successes have been achieved in the creation and production of new building materials, and on this basis the improvement of the physical condition of buildings and structures, and all this is very important in the construction of buildings and structures since their strength

CHEMICAL ENGINEERING JOURNAL

An International Journal of Research and Development

AUTHOR INFORMATION PACK

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ISSN: 1385-8947

DESCRIPTION

The *Chemical Engineering Journal* focuses upon three aspects of **chemical engineering**: chemical reaction engineering, environmental chemical engineering, and materials synthesis and processing.

The *Chemical Engineering Journal* is an international research journal and invites contributions of original and novel fundamental research. The journal aims to provide an international forum for the presentation of original fundamental research, interpretative reviews and discussion of new developments in **chemical engineering**. Papers which describe novel theory and its application to practice are welcome, as are those which illustrate the transfer of techniques from other disciplines. Reports of carefully executed experimental work, which is soundly interpreted are also welcome. The overall focus is on original and rigorous research results which have generic significance.

Within the *Chemical Engineering Journal*, the **Environmental Chemical Engineering** section presents papers dealing with emerging topics in environmental chemical and process engineering, including pollution control, separation processes, advanced oxidation processes, adsorption of contaminants, resources recovery, waste-to-energy, environmental nanotechnology and bioprocesses, CO2 capture and utilization, and micro(nano) plastic detection and remediation.

Within the *Chemical Engineering Journal*, the **Chemical Reaction Engineering** section presents papers on a wide range of topics including reaction kinetics, simulation and optimization of different types of reactors, unsteady-state reactors, multiphase reactors, and process intensification including fundamental investigations of the processes of heat, mass and momentum transfer that take place along with chemical reactions. Innovative research works addressing critical areas of reactor engineering (e.g. novel reactor designs and materials, reactor safety and environmental issues), and emerging reactor technologies (e.g. membrane reactors, chromatographic reactors, unconventional fluidized bed reactors, electrochemical reactors, micro-reactors, photoreactors, fuel-cells, enzymatic reactors, etc.) are particularly welcome. Submissions based entirely on e.g., numerical simulations with commercial CFD codes without novel experimental validation; novel sensing devices without a component of reaction engineering; theoretical mathematics; combustion in the context of energy conversion; or straightforward bioreactor applications (bacteria or animal cells) are highly discouraged, as these will find better fit in other existent journals.

Within the *Chemical Engineering Journal*, the **Novel Materials for Energy and Advanced Applications** section presents papers dealing with different aspects of the preparation and characterization of advanced materials designed for specific applications. This section represents the evolution of the highly successful Materials Synthesis and Processing section whose scope has

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Comments and Proposals: We are interested in receiving comments/feedback on this and our other journals and welcome publication proposals for books, electronic products, new journals and co-operation for existing journals.

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Chemical and Process Engineers, Applied Chemists and Product Engineers, Biochemical Engineers and Biotechnologists.

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Urška Lavrenčič Štangar

heterogenous photocatalysis in water and air, AOPs, self-cleaning and antifogging surfaces, wet chemistry synthesis of materials, materials characterization

Jinwoo Lee, Korea Advanced Institute of Science and Technology, Daejeon, Korea, Republic of

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Nano-enabled water treatment; Environmental functional materials; Nanomaterials for environmental remediation; Industrial wastewater treatment; Municipal wastewater treatment; Drinking water treatment; Adsorption; Advanced oxidation processes (AOPs); Water quality analysis; POPs and PPCPs removal

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Nanomaterials, Advanced Oxidation Process, Energy materials, Photocatalysis, Supercapacitors, Hydrogen, Materials for Energy and Environmental science, Electrocatalysis, Electrochemistry, Photo-fenton process, Aerogels, Microwave chemistry, Sonochemical processing, Batteries and electrode materials.

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Nanoarchitectured materials; Nanoporous materials; Inorganic materials chemistry; Inorganic synthetic chemistry; Energy and environmental applications

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