



alerts-noreply@clarivate.com  
To: me · Fri, Jan 23 at 10:04 PM

เรื่องที่น่าผลงานไปอ้างอิง

Pore diffusional mechanism of enzymatic esterification through acrylic resin immobilized lipase for producing an aviation fuel: Substantiating the necessary and sufficient conditions of the Langmuir-Hinshelwood model

Sengupta, Debina; Datta, Shamoyita; Sarkar, Ujjaini  
Surfaces And Interfaces

A novel Enzymatic Competitive Adsorption Model, which considers enzyme-specific interactions, was proposed and compared to the Langmuir competitive adsorption for the adsorption of butyric acid (BA) and butanol (BuOH) onto lipase immobilized on acrylic resin.

Cited publication:

Immobilisation of *Candida rugosa* lipase on polyhydroxybutyrate via a combination of adsorption and cross-linking agents to enhance acylglycerol production

ผลงานวิจัยของกนกพร

จำนวน 1 เรื่อง

Springer nature แจ้งว่ามีผลงานวิจัยเรื่อง “Pore diffusional mechanism of enzymatic esterification through acrylic resin immobilized lipase for producing an aviation fuel: substantiating the necessary and sufficient conditions of the Langmuir-Hinshelwood model” ได้ citation งานของกนกพร สัจจรักษ์ จำนวน 1 บทความ ได้แก่

1. ชื่องานวิจัย “Immobilisation of *Candida rugosa* lipase on polyhydroxybutyrate via a combination of adsorption and cross-linking agents to enhance acylglycerol production”

เรื่องที่น่าสนใจไปอ้างอิง

### Pore diffusional mechanism of enzymatic esterification through acrylic resin immobilized lipase for producing an aviation fuel: *Substantiating the necessary and sufficient conditions of the Langmuir-Hinshelwood model*

**By** Sengupta, P (Sengupta, Debprince ; Das, S (Datta, Shamoytal ; Sarkar, U (Sarkar, Ujjwal)  
**Source** SURFACES AND INTERFACES  
Volume 40  
DOI: 10.1016/j.surfin.2020.104001  
**Article Number** 104001  
**Published** JAN 1 2020  
**Indexed** 2020-01-16  
**Document Type** Article  
**Abstract** A novel Enzymatic Competitive Adsorption Model, which considers enzyme-specific interactions, was proposed and compared to the Langmuir competitive adsorption for the adsorption of butyric acid (BA) and butanol (BuOH) onto lipase immobilized within an acrylic resin. The application of the Langmuir-Hinshelwood (LH) kinetic model was substantiated for these reactions. A hierarchical porous structure, which enables stable lipase immobilization and facilitates efficient mass transfer of reactants, was developed through a hierarchical porous

ชื่อวารสาร

วัน เดือน ปี ที่ตีพิมพ์

**Citation Network**

In Web of Science Core Collection

0 Citations

120 Cited References

**Use in Web of Science**

0 Last 100 Days

0 Since 2013

**This record is from:**

**Web of Science Core Collection**

- Science Citation Index Expanded (SCI-EXPANDED)

ฐานข้อมูล

งานวิจัยเรื่อง “Pore diffusional mechanism of enzymatic esterification through acrylic resin immobilized lipase for producing an aviation fuel: substantiating the necessary and sufficient conditions of the Langmuir-Hinshelwood model”

ตีพิมพ์ในวารสาร Surfaces and interfaces

อยู่ในฐาน ISI

ตีพิมพ์ 16 มกราคม 2569