

# Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/the-influence-of-biofilm-detachment-model-on-steady-state-properties-of-a-three-phase-fluidized-bed-bioreactor>

## The influence of biofilm detachment model on steady-state properties of a three-phase fluidized-bed bioreactor

<b>Publication date:</b>	27.12.2018
<b>Publication title:</b>	<a href="#">The influence of biofilm detachment model on steady-state properties of a three-phase fluidized-bed bioreactor</a>
<b>Authors:</b>	<a href="#">Szymon Skoneczny</a>
<b>Journal information:</b>	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
<b>Tags:</b>	<a href="#">fluidized-bed bioreactor</a> , <a href="#">biofilm detachment</a> , <a href="#">mathematical modeling</a>

**Abstrakt:** Steady-state characteristics of a three-phase fluidized-bed bioreactor was determined with the use of three biofilm detachment models. Simulations were carried out for two chosen microbiological processes. It was shown that depending on the accepted quantitative description of biofilm detachment, quantitative or qualitative differences occur in the steady-state characteristics of the bioreactor.

## Attachments:

[Zeszyt 22 \(2018\)](#) pdf, 4.49 MB

<b>Published by:</b>	Artur Wojdyła
<b>Published at:</b>	31.07.2025 12:53
<b>Last edited by:</b>	Artur Wojdyła
<b>Last edited at:</b>	31.07.2025 12:55
<b>Number of downloads:</b>	81

Tagi: fluidized-bed bioreactor, biofilm detachment, mathematical modeling

# Metryczka

<b>Published by:</b>	Artur Wojdyła
<b>Published at:</b>	05.08.2025 13:53
<b>Number of views:</b>	72