

# Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/effective-palladium-functionalized-catalysts-for-suzuki-coupling-reaction>

## Effective palladium-functionalized catalysts for Suzuki coupling reaction

<b>Publication date:</b>	28.12.2017
<b>Publication title:</b>	<a href="#">Effective palladium-functionalized catalysts for Suzuki coupling reaction</a>
<b>Authors:</b>	<a href="#">Katarzyna Maresz</a> , <a href="#">Julita Mrowiec-Białoń</a> , <a href="#">Agnieszka Ciemięga</a> , <a href="#">Janusz J. Malinowski</a>
<b>Journal information:</b>	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
<b>Tags:</b>	<a href="#">suzuki coupling reaction</a> , <a href="#">hierarchical materials</a> , <a href="#">monolithic microreactor</a>

**Abstract:** Effective heterogeneous catalysts for the Suzuki coupling reaction have been prepared. Catalysts based on silica monoliths with hierarchical pore structure and SBA-15 modified with palladium organic complexes. Transmission electron microscopy (TEM), nitrogen physical adsorption, thermogravimetry (TG) and Fourier transform infrared (FTIR) studies have been used to characterize the materials. Catalysts exhibited high activity for Suzuki coupling reaction of iodobenzene with phenylboronic acid. The flow microreactor showed stability of catalytic properties with an average conversion of 96%.

## Attachments:

[Zeszyt-21-2017](#) pdf, 3.74 MB

<b>Created at:</b>	04.08.2025
<b>Published by:</b>	Artur Wojdyła
<b>Published at:</b>	05.08.2025 10:09
<b>Number of downloads:</b>	76

Tagi: suzuki coupling reaction, hierarchical materials, monolithic microreactor

## Metryczka

<b>Published by:</b>	Artur Wojdyła
<b>Published at:</b>	18.09.2025 12:27
<b>Number of views:</b>	65